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EMPLOYMENT AND PAY ROLLS

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Employment and Pay Rolls

SUMMARY OF REPORTS FOR JULY 1940

Total Nonagricultural Employment

MORE than 110,000 additional workers found employment in nonagricultural industries between mid-June and mid-July. This brought the estimated number of workers in nonagricultural occupations to 35,600,000, which was the maximum reached this year and about 1,000,000 greater than in the corresponding month of last year.

Employment on private and public building construction continued to rise in July, about 75,000 more workers being employed than in the preceding month. Transportation and public-utility companies added 30,000 workers to their staffs, the major portion of which gain was on steam railroads. A net gain of 7,000 workers was reported in the group of mining industries, and factories added about 5,000 workers to their pay rolls. Seasonal summer recessions in retail trade activity resulted in a net decline of more than 75,000 workers in wholesale and retail trade, and a negligible loss was reported in the group of finance, service, and miscellaneous industries.

The above summary excludes emergency employment which, as a result of the following changes, showed a net increase of 16,000: Increases of 68,000 on projects operated by the Work Projects Administration and 34,000 in the Civilian Conservation Corps and a decrease of 86,000 on the out-of-school work program of the National Youth Administration.

Industrial and Business Employment

Increases in employment were reported by 52 of the 90 manufacturing industries surveyed and 9 of the 16 nonmanufacturing industries covered. Pay-roll gains were shown by 45 of the manufacturing and 7 of the nonmanufacturing industries.

The gain of 0.1 percent or about 9,000 workers in manufacturing industries, while not pronounced, was noteworthy in that factory employment usually declines by about 31,000 workers from June to July. This contraseasonal gain was due in large measure to continued expansion in the war-materials industries. Aircraft firms took on an additional 5,200 workers in July; shipbuilding companies, 3,900; and

plants manufacturing engines, 3,000 workers. Machine-tool plants added 1,800 workers to their forces, and firms manufacturing aluminum products and explosives took on nearly 1,000 additional workers.

Other manufacturing industries stimulated directly or indirectly by Government or war orders were iron and steel, with an increase of 19,100 employees; woolen and worsted goods, 13,600; shoes, 12,500; men's clothing, 8,400; and cotton goods, 4,900. The approach of peak season operations in the canning industry was reflected in the gain of 32,900 workers, which was less than the usual seasonal expansion. Larger-than-seasonal gains, however, were reported in slaughtering and meat packing (3,700); and book and job printing (2,600).

The increase in factory employment was accompanied by a decline of 1.4 percent, or about \$2,600,000, in weekly factory pay rolls. July pay rolls are normally reduced by shut-downs for inventory and repairs and the observance of the Fourth of July holiday. The current pay-roll decline, however, is not as great as the expected seasonal reduction of 3.7 percent, or \$6,900,000.

There were about 90,000 fewer workers employed in the automobile and parts plants in July than in the preceding month, the earlier change-over for models this year resulting in a sharper decline than is customarily experienced. Although nearly 14,000 fewer workers were employed in women's clothing factories in July than in June, this decline was not as marked as usual for this season. Other manufacturing industries in which substantial reductions in forces were reported included newspapers, wirework, millinery, shirts and collars, agricultural implements, and cigars and cigarettes.

Employment in the private building construction industry increased 5.9 percent from June to July and weekly pay rolls rose 5.2 percent. The greater-than-seasonal employment increases registered in each of the previous 3 months were continued, the current month's gain being slightly larger than the 4.5 percent increase from June to July 1939, and substantially larger than the 1.7 percent average gain for this month during the 1932-39 period. Employment in July 1940 was 10.7 percent above July 1939, and pay rolls were 13.8 percent above the level of a year ago. Increases in private construction were general throughout the country, eight of the nine geographic divisions reporting increased employment. In the Mountain States, employment declined slightly, following the marked increases in previous months. General building contractors increased employment by 7.6 percent, while special-trades contractors registered a 3.9 percent gain. The more pronounced employment gains in the special-trades group were in plastering, 13.9 percent; tile and terrazzo contracting, 8.9 percent; plumbing, 6.2 percent; structural-steel erection, 14.1 percent; ornamental metalwork, 7.8 percent; and building insulation, 4.4 percent. Brick and stone contractors reported employment declines

of 4.7 percent; painting contractors, 2.1 percent; and glazing contractors, 4.6 percent. The reports on which the building construction figures are based do not cover construction projects financed by the Work Projects Administration, the Public Works Administration, and the Reconstruction Finance Corporation, or by regular appropriations of the Federal, State, or local governments.

In the group of mining industries, anthracite and bituminous-coal mines both reported contraseasonal gains of 1.4 percent. Pay rolls in anthracite mines, however, declined sharply from mid-June to mid-July, due in part to the Fourth of July shut-down; while in the bituminous mines, pay rolls registered a greater increase than employment, reflecting increased industrial demands. A slight gain of 0.5 percent in metal mines, which continued the employment gains of the last 3 months, was accompanied by a 5.1-percent loss in pay rolls, which occurred principally in the nonferrous mines. Employment in quarries and nonmetallic mines and in crude-petroleum production remained virtually unchanged, decreases of one-tenth of 1 percent being reported in each industry. Employment in the telephone and telegraph and in the electric light and power industries increased 1.4 percent, continuing the gains reported each month since the early part of this year, while the number of employees on street railways and busses remained unchanged from the preceding month.

Seasonal losses in employment were reported in year-round hotels and dyeing and cleaning plants, reflecting customary midsummer curtailment. Brokerage houses reduced their personnel by 1.5 percent while insurance companies reported a small increase in employment, 0.7 percent. In retail trade, the employment decline of 2.7 percent from June to July reflected the usual midsummer trend. Department stores curtailed employment by 8.5 percent; women's apparel stores, 15.3 percent; shoe stores, 14.1 percent; men's and boy's clothing, 11.8 percent; and family clothing, 9.4 percent. Among the few retail lines reporting increased employment were dealers in milk and other dairy products, automotive supplies, lumber and building materials, plumbing and heating equipment, cigars, drugs, and ice.

Employment in wholesale trade remained virtually unchanged between mid-June and mid-July, the increase amounting to 0.2 percent. Among the more pronounced percentage increases in employment were 4.4 percent in hardware, 3.7 percent in iron and steel scrap, 1.5 percent in plumbing and heating equipment and supplies, 1.4 percent in metals and minerals, and 1.1 percent in lumber and building materials. Increases of 1 percent or less were reported in such important lines as food, groceries, petroleum products, automotive products, chemicals and drugs, and electrical supplies. Reductions in employment were reported by dealers in dry goods and apparel (0.7 percent), machinery, equipment, and supplies (0.2 percent),

furniture and furnishings (0.1 percent), while wholesalers of farm products reduced their forces seasonally by 8.1 percent and assemblers and country buyers by 10.9 percent.

A preliminary report of the Interstate Commerce Commission showed an employment gain by class I railroads of 1.5 percent, or nearly 14,300 workers, between June and July. The total number employed in July was 1,050,254. Corresponding pay-roll figures for July were not available when this report was prepared. For June they were \$159,753,638, a decrease of 0.6 percent since May.

Hours and earnings.—The average hours worked per week by manufacturing wage earners were 37.3 in July, a decrease of 0.7 percent since June. The corresponding average hourly earnings were 66.7 cents, a decrease of 0.5 percent from the preceding month. The average weekly earnings of factory workers were \$25.25, a decrease of 1.5 percent since June. Wage-rate increases affecting more than 38,000 factory wage earners were reported in July by 223 cooperating establishments. The industries in which the greatest number of workers were affected were electrical machinery (11,700), shipbuilding (2,900), paper and pulp (3,500), steel (2,200), and woolen and worsted goods (1,700). As the Bureau's survey does not cover all establishments in an industry and some firms may have failed to report wage changes, the above numbers should not be construed to represent the total number of wage changes occurring in manufacturing industries.

Of the 14 nonmanufacturing industries for which man-hours are available, 4 showed gains in average hours worked per week and 6 showed gains in average hourly earnings. Six of the sixteen nonmanufacturing industries surveyed reported gains in weekly earnings.

Employment and pay-roll indexes and average weekly earnings for July 1940 are given in table 1 for all manufacturing industries combined, for selected nonmanufacturing industries, for water transportation, and for class I railroads. Percentage changes over the month and year intervals are also given.

TABLE 1.—*Employment, Pay Rolls, and Earnings in All Manufacturing Industries Combined and in Nonmanufacturing Industries, July 1940 (Preliminary Figures)*

Industry	Employment			Pay roll			Average weekly earnings		
	Index, July 1940	Percentage change from—		Index, July 1940	Percentage change from—		Average in July 1940	Percentage change from—	
		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939
All manufacturing industries combined ¹	(1928-29 = 100) 99.5	+0.1	+6.4	(1928-29 = 100) 96.5	-1.4	+14.3	\$25.25	-1.5	+7.4
Class I steam railroads ²	58.8	+1.5	+4.8	(³)	(³)	(³)	(³)	(³)	(³)
Coal mining:	(1929 = 100)			(1929 = 100)					
Anthracite ⁴	50.8	+1.4	+13.7	36.4	-10.5	+44.4	23.52	-11.7	+27.0
Bituminous ⁴	84.9	+1.4	+7.0	75.5	+2.1	+17.0	23.65	+7	+9.4
Metalliferous mining.....	70.6	+5	+16.9	62.1	-5.1	+28.0	27.34	-5.6	+9.5
Quarrying and nonmetallic mining.....	47.9	-1	+7	43.3	-1.3	+5.9	22.63	-1.1	+5.1
Crude-petroleum production.....	63.7	-1	-5.3	59.1	+4	-4.6	33.92	+5	+7
Public utilities:									
Telephone and telegraph ⁵	78.9	+1.4	+3.2	102.4	+2.3	+6.0	⁶ 31.75	+9	+2.6
Electric light and power ⁵	92.5	+1.4	+2.8	105.5	+6	+4.3	⁶ 34.75	-8	+1.5
Street railways and busses ⁷	68.5	(⁸)	-8	70.0	-7	+9	⁶ 33.58	-7	+1.8
Trade:									
Wholesale ⁹	89.7	+2	+2.0	78.5	+1	+3.5	⁶ 30.41	0	+1.5
Retail ⁹	89.4	-2.7	+2.5	83.1	-2.0	+4.5	⁶ 21.68	+8	+2.0
Hotels (year-round) ^{4, 10}	89.5	-2.7	-8	80.2	-2.3	+1.4	⁶ 15.54	+5	+2.3
Laundries ⁴	102.4	+3	+2.4	90.1	-2.5	+2.4	18.00	-2.8	-(⁹)
Dyeing and cleaning ⁴	108.0	-4.1	+1.4	79.9	-10.8	+3.7	20.06	-7.0	+2.2
Brokerage.....	(⁹)	-1.5	+1.6	(⁹)	-3.3	-.3	⁶ 36.05	-1.8	-1.9
Insurance.....	(⁹)	+7	+1.4	(⁹)	+2.0	+4.7	⁶ 37.39	+1.3	+3.2
Building construction.....	(⁹)	+5.9	+10.7	(⁹)	+5.2	+13.8	31.78	-6	+2.7
Water transportation ¹¹	80.5	+3.1	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)

¹ Revised indexes—Adjusted to 1937 Census of Manufactures.

² Preliminary—Source: Interstate Commerce Commission.

³ Not available.

⁴ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of this pamphlet.

⁵ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in pamphlets prior to January 1940 or in the Monthly Labor Review prior to April 1940. Revised series available upon request.

⁶ Average weekly earnings not strictly comparable with figures published in issues of the pamphlet dated earlier than January 1938, as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁷ Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies.

⁸ Less than 1/10 of 1 percent.

⁹ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of pamphlet.

¹⁰ Cash payments only; the additional value of board, room, and tips cannot be computed.

¹¹ Based on estimates prepared by the United States Maritime Commission.

Public Employment

Employment on construction projects financed by the Public Works Administration continued to decline, with a drop of 16,000 in the month ending July 15. Wage payments of \$7,714,000 to the 76,000 workers employed on P. W. A. projects were \$1,591,000 less than in June.

Contractors on low-rent projects of the United States Housing Authority employed an additional 1,000 building-trades workers in the month ending July 15. Pay-roll disbursements of \$5,335,000 to the 51,000 men employed were \$380,000 more than in June.

Sizable gains on public road, ship construction, and dredging projects brought employment on construction projects financed from regular Federal appropriations up to 318,000 for the month ending July 15. Pay rolls of \$34,647,000 were \$2,828,000 more than in the preceding month.

The number of wage earners on construction projects financed by the Reconstruction Finance Corporation rose from 2,100 to 2,200 in the month ending July 15. Pay-roll disbursements totaled \$265,000, an increase of \$5,000 over June.

The return of approximately 68,000 persons to jobs on work-relief projects operated by the Work Projects Administration brought employment up to 1,651,000 for the month of July. The number at work, however, was 493,000 less than in July 1939. Pay-roll disbursements of \$95,030,000 were \$1,515,000 less than in June. The number of persons at work on Federal agency projects under the Work Projects Administration fell 4,000 in July.

The number of workers employed on the out-of-school work program of the National Youth Administration declined 86,000 in July. Because of the end of the school year in June the student work program was inoperative in July.

As a result of the beginning of an enlistment period, employment in camps of the Civilian Conservation Corps rose 34,000 in July. Of the 316,500 on the pay roll, 280,100 were enrollees; 1,600, educational advisers; 200, nurses; and 34,600, supervisory and technical employees.

Employment increases were reported in all the regular services of the Federal Government. Of the 1,023,000 employees in the executive service, 138,000 were working in the District of Columbia and 885,000 outside the District. Force-account employees (employees on the pay roll of the United States Government who are engaged on construction projects, and whose period of employment terminates as the project is completed) were 10 percent of the total number of employees in the executive service.

State-financed road projects showed a seasonal increase of 8,000 in July. Of the 198,000 on the pay roll, 62,000 were engaged in the

construction of new roads and 136,000 on maintenance. Pay-roll disbursements for both types of road work were \$14,696,000.

A summary of Federal employment and pay-roll data for July is given in table 2.

TABLE 2.—*Summary of Employment and Pay Rolls in Regular Federal Services and on Projects Financed Wholly or Partially from Federal Funds, July and June 1940*

[Preliminary figures]

Class	Employment			Pay rolls		
	July	June	Percentage change	July	June	Percentage change
Federal Services:						
Executive ¹	1,023,341	1,011,066	+1.2	\$154,741,114	\$149,076,667	+3.8
Judicial.....	2,783	2,468	+12.8	699,287	585,419	+19.5
Legislative..	5,985	5,886	+1.7	1,315,833	1,303,166	+1.0
Military.....	515,822	473,680	+8.9	37,732,671	33,729,173	+11.9
Construction projects:						
Financed by P. W. A. ²	76,042	91,609	-17.0	7,714,121	9,305,085	-17.1
U. S. H. A. low-rent housing....	50,526	49,743	+1.6	5,335,120	4,954,520	+7.7
Financed by R. F. C. ³	2,213	2,095	+5.6	264,726	259,871	+1.9
Financed by regular Federal appropriations.....	317,691	299,760	+6.0	34,646,957	31,818,888	+8.9
Federal agency projects financed by Works Projects Administration...	107,803	112,328	-4.0	4,376,523	5,142,507	-14.9
Projects operated by W. P. A.....	1,651,407	1,583,242	+4.3	95,030,429	96,545,418	-2.6
National Youth Administration:						
Student work program ⁴	0	314,539	-100.0	0	2,321,283	-100.0
Out-of-school program.....	188,029	274,090	-31.4	3,332,612	5,558,254	-40.0
Civilian Conservation Corps..	316,548	282,896	+11.9	14,146,541	13,421,374	+5.4

¹ Includes force-account and supervisory and technical employees shown under other classifications to the extent of 134,071 employees and pay-roll disbursements of \$18,137,390 for July 1940, and 131,475 employees and pay-roll disbursements of \$17,406,799 for June 1940.

² Data covering P. W. A. projects financed from National Industrial Recovery Act funds, Emergency Relief Appropriation Acts of 1935, 1936, 1937 funds, and Public Works Administration Appropriation Act of 1938 funds are included. These data are not shown under projects financed by the Work Projects Administration. Includes 6,606 wage earners and \$681,795 pay roll for July 1940; 7,456 wage earners and \$716,866 pay roll for June 1940, covering Public Works Administration projects financed from Emergency Relief Appropriation Acts of 1935, 1936, and 1937 funds. Includes 66,769 wage earners and \$6,744,740 pay roll for July 1940; 81,254 wage earners and \$8,299,485 pay roll for June 1940, covering Public Works Administration projects financed from funds provided by the Public Works Administration Appropriation Act of 1938.

³ Includes 1,284 employees and pay-roll disbursements of \$168,404 for July 1940; 1,078 employees and pay-roll disbursements of \$162,325 for June 1940 on projects financed by the RFC Mortgage Co.

⁴ Not in operation during July.

⁵ Revised.



DETAILED TABLES FOR JULY 1940

Estimates of Nonagricultural Employment

TWO sets of estimates of nonagricultural employment have been prepared. The first, "Total nonagricultural employment," given on the first line of table 3, shows the estimated number of persons engaged in gainful work in the United States in nonagricultural industries, including proprietors and firm members, self-employed persons, casual workers, and domestic workers. The second series, which is described as "Employees in nonagricultural establishments," does not include proprietors, self-employed persons, and domestic or casual workers. Neither set of figures includes persons employed on W. P. A. or N. Y. A. projects or enrollees in C. C. C. camps. The estimates

for "Employees in nonagricultural establishments" are shown separately for each of seven major industry groups. Tables giving figures for each group, by months, for the period from January 1929 to date are available on request.

The figures represent the number of persons working at any time during the week ending nearest the middle of each month. The totals for the United States have been adjusted to conform to the figures shown by the 1930 Census of Occupations for the number of nonagricultural "gainful workers" less the number shown to have been unemployed for 1 week or more at the time of the census. Separate estimates for "Employees in nonagricultural establishments" are shown in table 4 for each of the 48 States and the District of Columbia for June and July 1940 and July 1939. Tables showing monthly figures for each State from January 1938 to date are available on request. The State figures do not include the armed forces of the United States nor employees on merchant vessels. Certain adjustments have been made in the United States estimates which cannot be made on a State basis, and for this reason the total of the State estimates will not agree exactly with the United States figures even if allowance is made for military, naval, and maritime employment. These estimates are based in large part on industrial censuses and on regular reports of employers to the United States Bureau of Labor Statistics and to other Government agencies, such as the Interstate Commerce Commission. Data derived from employers' quarterly reports in connection with "old age and survivors' insurance," and employers' monthly reports in connection with unemployment compensation have been used extensively as a check on estimates derived from other sources, and in some industries they have provided the most reliable information available.

TABLE 3.—*Estimates of Nonagricultural Employment, by Major Groups*

[In thousands]

Industrial group	July 1940 (preliminary)	June 1940	Change, June to July 1940	July 1939	Change, July 1939 to July 1940
Total nonagricultural employment ¹	35,593	35,485	+108	34,579	+1,014
Employees in nonagricultural establishments ²	29,453	29,341	+112	28,436	+1,017
Manufacturing.....	9,539	9,534	+5	9,033	+506
Mining.....	845	833	+7	787	+58
Construction.....	1,393	1,317	+76	1,388	+5
Transportation and public utilities.....	3,022	2,991	+31	2,936	+86
Trade.....	6,097	6,174	-77	5,992	+105
Finance, service, and miscellaneous.....	4,213	4,214	-1	4,174	+39
Federal, State and local government, including armed forces.....	4,344	4,273	+71	4,126	+218

¹ Includes proprietors, firm members, self-employed persons, casual workers, and domestic workers.

² Does not include proprietors, firm members, self-employed persons, casual workers, and domestic workers.

TABLE 4.—Estimated Number of Employees in Nonagricultural Establishments, by States

[Excludes proprietors, firm members, self-employed persons, casual workers, domestic workers, the armed forces of the United States, and employees on merchant vessels]

[In thousands]

Geographic division and State	July 1940 (preliminary)	June 1940	Change, June to July 1940		July 1939	Change, July 1939 to July 1940	
			Number	Percentage		Number	Percentage
New England	2,480	2,432	+48	+1.9	2,408	+72	+2.9
Maine.....	192	186	+6	+3.0	196	-4	-2.4
New Hampshire.....	131	125	+6	+5.3	130	+1	+1.2
Vermont.....	80	78	+2	+1.9	74	+6	+7.3
Massachusetts.....	1,285	1,259	+26	+2.1	1,266	+19	+1.5
Rhode Island.....	224	221	+3	+1.2	220	+4	+1.9
Connecticut.....	568	563	+5	+ .8	522	+46	+8.7
Middle Atlantic	7,626	7,602	+24	+ .3	7,308	+318	+4.4
New York.....	3,821	3,827	-6	- .1	3,740	+81	+2.2
New Jersey.....	1,158	1,151	+7	+ .6	1,079	+79	+7.3
Pennsylvania.....	2,647	2,624	+23	+ .9	2,489	+158	+6.3
East North Central	6,599	6,640	-41	- .6	6,301	+298	+4.7
Ohio.....	1,735	1,733	+2	+ .1	1,655	+80	+4.8
Indiana.....	757	762	-5	- .6	713	+44	+6.2
Illinois.....	2,214	2,194	+20	+ .9	2,101	+113	+5.4
Michigan.....	1,261	1,331	-70	-5.3	1,211	+50	+4.1
Wisconsin.....	632	620	+12	+2.0	621	+11	+1.8
West North Central	2,339	2,339	0	(¹)	2,324	+15	+ .6
Minnesota.....	526	524	+2	+ .4	522	+4	+ .8
Iowa.....	396	399	-3	- .7	398	-2	- .3
Missouri.....	757	759	-2	- .4	755	+2	+ .3
North Dakota.....	79	78	+1	+1.8	77	+2	+2.3
South Dakota.....	85	83	+2	+2.0	82	+3	+2.7
Nebraska.....	204	203	+1	+ .5	201	+3	+1.3
Kansas.....	292	293	-1	- .2	289	+3	+1.0
South Atlantic	3,361	3,343	+18	+ .4	3,258	+103	+3.2
Delaware.....	69	69	0	(¹)	64	+5	+7.6
Maryland.....	507	497	+10	+2.0	481	+26	+5.5
District of Columbia.....	342	335	+7	+2.1	319	+23	+7.4
Virginia.....	481	481	0	(¹)	468	+13	+2.9
West Virginia.....	368	368	0	(¹)	353	+15	+4.1
North Carolina.....	554	556	-2	- .4	553	+1	(¹)
South Carolina.....	273	269	+4	+1.8	269	+4	+1.8
Georgia.....	454	454	0	- .1	442	+12	+2.7
Florida.....	313	319	-6	-2.1	309	+4	+1.2
East South Central	1,328	1,316	+12	+ .9	1,295	+33	+2.5
Kentucky.....	356	355	+1	+ .3	348	+8	+2.2
Tennessee.....	441	435	+6	+1.4	424	+17	+4.0
Alabama.....	352	350	+2	+ .6	341	+11	+3.3
Mississippi.....	179	176	+3	+1.6	182	-3	-1.6
West South Central	1,789	1,780	+9	+ .5	1,778	+11	+ .6
Arkansas.....	175	169	+6	+3.6	173	+2	+1.4
Louisiana.....	363	360	+3	+ .8	356	+7	+1.9
Oklahoma.....	291	288	+3	+ .9	294	-3	- .9
Texas.....	960	963	-3	- .3	955	+5	+ .5
Mountain	779	767	+12	+1.8	762	+17	+2.3
Montana.....	114	113	+1	+1.6	110	+4	+3.8
Idaho.....	86	85	+1	+2.0	84	+2	+3.1
Wyoming.....	54	52	+2	+3.1	54	0	+ .7
Colorado.....	226	219	+7	+3.2	220	+6	+2.7
New Mexico.....	69	70	-1	-1.0	69	0	(¹)
Arizona.....	86	88	-2	-1.9	85	+1	+1.7
Utah.....	112	108	+4	+3.7	110	+2	+1.9
Nevada.....	32	32	0	+ .6	30	+2	+5.9
Pacific	2,392	2,365	+27	+1.1	2,331	+61	+2.6
Washington.....	433	422	+11	+2.6	413	+20	+5.0
Oregon.....	232	234	-2	-1.0	229	+3	+1.0
California.....	1,727	1,709	+18	+1.0	1,689	+38	+2.2

¹ Less than 0.1 percent.

Industrial and Business Employment

Monthly reports on employment and pay rolls are available for 90 manufacturing industries; 16 nonmanufacturing industries, including private building construction; water transportation; and class I steam railroads. The reports for the first 2 of these groups—manufacturing and nonmanufacturing—are based on sample surveys by the Bureau of Labor Statistics. The figures on water transportation are based on estimates prepared by the Maritime Commission, and those on class I steam railroads are compiled by the Interstate Commerce Commission. They are presented in the foregoing summary.

The indexes of factory employment and pay rolls are based on the 3-year average 1923–25 as 100 and are adjusted to 1937 census data. They relate to wage earners only and are computed from reports supplied by representative manufacturing establishments in 90 manufacturing industries. These reports cover more than 55 percent of the total wage earners in all manufacturing industries of the country and more than 65 percent of the wage earners in the 90 industries included in the monthly survey of the Bureau of Labor Statistics.

The indexes for the nonmanufacturing industries are based on the 12-month average for 1929 as 100. Figures for mining, laundries, and dyeing and cleaning cover wage earners only, but the figures for public utilities, trade, and hotels relate to all employees except corporation officers, executives, and other employees whose duties are mainly supervisory. For crude-petroleum production they cover wage earners and clerical field force. The coverage of the reporting samples for the various nonmanufacturing industries ranges from approximately 25 percent for wholesale and retail trade, dyeing and cleaning, and insurance, to approximately 80 percent for quarrying and nonmetallic mining, anthracite mining, and public utilities.

The indexes for retail trade have been adjusted to conform in general with the 1935 census of retail distribution and are weighted by lines of trade. For the public utilities they have been adjusted to the 1937 census of electrical industries, for wholesale trade to the 1933 census, and for coal mining, year-round hotels, laundries, and dyeing and cleaning to the 1935 censuses.

Data for both manufacturing and nonmanufacturing industries are based on reports of the number of employees and amount of pay rolls for the pay period ending nearest the 15th of the month.

The average weekly earnings shown in tables 5 and 6 are computed by dividing the total weekly pay rolls in the reporting establishments by the total number of full- and part-time employees reported. As not all reporting establishments supply man-hours, average hours worked per week and average hourly earnings are necessarily based on data furnished by a smaller number of reporting firms. The size and

composition of the reporting sample vary slightly from month to month. Therefore, the average hours per week, average hourly earnings, and average weekly earnings shown may not be strictly comparable from month to month. The sample, however, is believed to be sufficiently adequate in virtually all instances to indicate the general movement of earnings and hours over the period shown. The changes from the preceding month, expressed as percentages, are based on identical lists of firms for the 2 months, but the changes from July 1939 are computed from chain indexes based on the month-to-month percentage changes.

EMPLOYMENT AND PAY-ROLL INDEXES, AVERAGE HOURS, AND AVERAGE EARNINGS

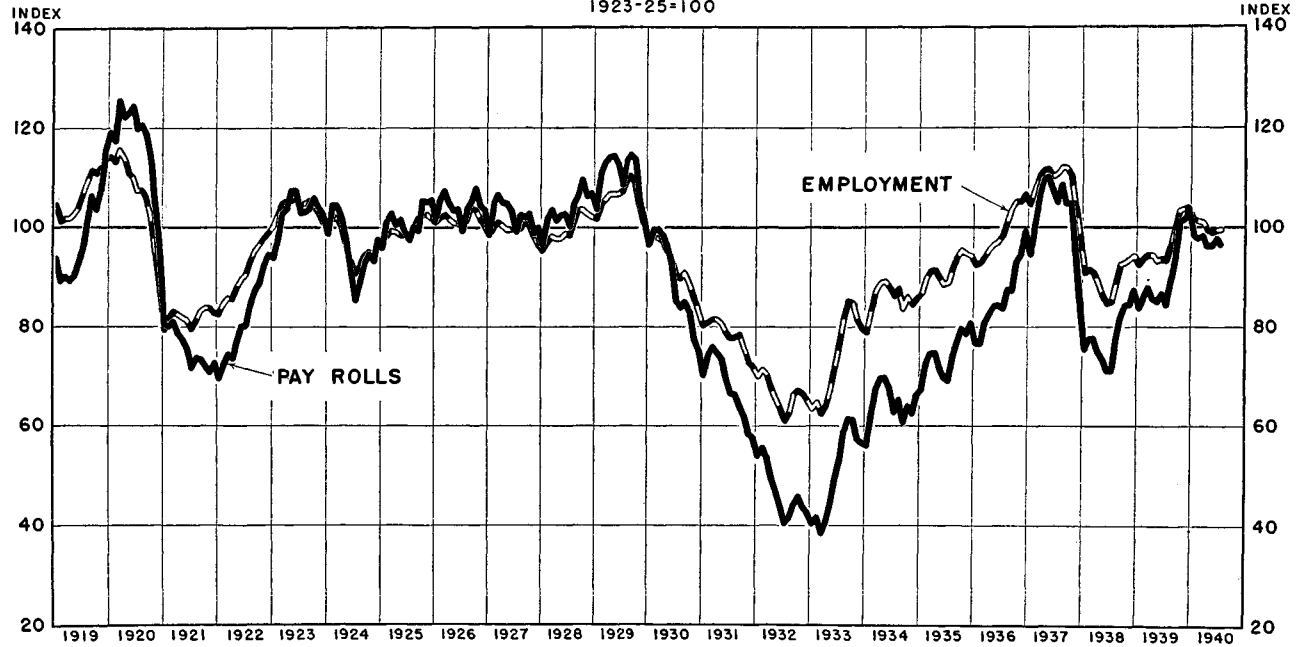
The indexes of employment and pay rolls as well as average hours worked per week, average hourly earnings, and average weekly earnings in manufacturing and nonmanufacturing industries in July 1940 are shown in table 5. Percentage changes from June 1940 and July 1939 are also given.

The employment and pay-roll indexes, as well as average hours worked per week, average hourly earnings, and average weekly earnings for May, June, and July 1940, where available, are presented in table 6. The May and June figures, where given, may differ in some instances from those previously published because of revisions necessitated primarily by the inclusion of late reports.

In table 7, indexes of employment and pay rolls are given for all manufacturing industries combined, for the durable- and nondurable-goods groups of manufacturing industries, and for each of 13 non-manufacturing industries, by months, from July 1939 to July 1940, inclusive. The accompanying chart indicates the trend of factory employment and pay rolls from January 1919 to July 1940.

EMPLOYMENT AND PAY ROLLS ALL MANUFACTURING INDUSTRIES

1923-25=100



UNITED STATES BUREAU OF LABOR STATISTICS

ADJUSTED TO 1937 CENSUS

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, July 1940*

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100. New series—adjusted to 1937 Census of Manufactures for all industries except automobiles, and not comparable to indexes published in the July 1939 and earlier issues of the pamphlet. Comparable series available upon request.]

Industry	Employment			Pay rolls			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	Index July 1940	Percentage change from—		Index July 1940	Percentage change from—		July 1940	Percentage change from—		July 1940	Percentage change from—		July 1940	Percentage change from—	
		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939
All manufacturing	99.5	+0.1	+8.4	96.5	-1.4	+14.3	\$25.25	-1.5	+7.4	37.3	-0.7	+1.3	<i>Cents</i> 68.7	-0.5	+4.8
Durable goods.....	85.6	-1.4	+15.2	96.0	-4.0	+26.3	23.52	-2.6	+9.6	37.9	-1.9	+4.8	72.7	-0.7	+3.7
Nondurable goods.....	103.3	+1.6	-0.2	97.1	+1.7	+3.6	21.87	+0.2	+3.9	36.7	+0.5	-1.6	61.5	-0.1	+4.6
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	106.2	+2.4	+18.4	104.3	+1.5	+32.7	\$28.89	-0.9	+12.1	37.2	-0.9	+8.5	77.7	+0.4	+2.4
Blast furnaces, steel works, and rolling mills...	119.0	+4.1	+24.9	116.2	+2.0	+41.7	30.75	-2.0	+13.4	36.4	-1.5	+13.4	84.9	+0.2	-0.1
Bolts, nuts, washers and rivets.....	109.1	+4.6	+17.4	113.1	+1.6	+36.1	25.04	-2.9	+14.8	36.1	-3.5	+12.9	69.5	+0.6	+2.1
Cast-iron pipe.....	78.2	+1.8	+4.8	74.9	+7.0	+13.9	22.97	+5.1	+8.6	37.9	+5.5	+3.9	60.3	-0.5	+4.5
Cutlery (not including silver and plated cutlery) and edge tools.....	98.8	-2.4	+14.2	90.6	-1.0	+19.0	23.81	+1.4	+4.1	38.6	+0.2	+2.0	62.4	+1.1	+1.9
Forgings, iron and steel.....	67.8	+2.8	+24.5	77.6	+4.7	+41.6	30.90	+1.8	+13.7	39.4	+0.9	+9.2	78.7	+1.0	+4.6
Hardware.....	82.9	+1.6	+20.2	85.7	-0.1	+31.0	25.45	-1.6	+9.1	37.3	-2.0	-0.5	68.3	+0.4	+9.7
Plumbers's supplies.....	84.3	+1.8	+10.0	74.2	+1.0	+13.7	25.63	-0.1	+3.3	36.6	-0.7	-1.1	70.1	+0.5	+4.5
Stamped and enameled ware.....	152.4	-0.2	+6.1	166.1	+2.1	+20.8	25.93	+2.3	+13.8	38.6	+0.7	+5.9	67.2	+2.3	+7.7
Steam and hot-water heating apparatus and steam fittings.....	84.2	-1.0	+11.3	78.0	+1.8	+30.1	28.25	+2.8	+16.9	39.8	+1.5	+13.5	71.1	+1.3	+3.2
Stoves.....	91.8	-0.8	+7.4	81.3	-1.8	+11.7	25.21	-1.0	+4.1	37.4	+0.3	+1.7	67.7	-1.1	+2.6
Structural and ornamental metalwork.....	76.0	+3.5	+10.6	67.6	+4.2	+15.2	28.87	+0.7	+4.2	39.0	+1.1	+1.5	73.8	-0.3	+2.7
Tin cans and other tinware.....	105.9	+3.0	+5.7	113.4	-0.1	+10.3	24.38	-3.0	+4.4	39.1	-2.1	+1.3	62.7	-0.9	+3.7
Tools (not including edge tools, machine tools, files, and saws).....	94.0	+2.6	+18.0	91.7	+3.5	+27.0	24.60	+0.9	+7.7	39.0	+0.1	+5.6	63.1	+0.7	+2.1
Wirework.....	136.2	-10.5	+8.2	140.8	-12.6	+13.5	25.96	-2.3	+4.9	37.1	-1.6	+2.3	70.0	-0.8	+2.5

See footnotes at end of table.

TABLE 5.—Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, July 1940—Continued

MANUFACTURING—Continued

[Indexes are based on 3-year average, 1923-25=100. New series—adjusted to 1937 Census of Manufactures for all industries except automobiles, and not comparable to indexes published in the July 1939 and earlier issues of the pamphlet. Comparable series available upon request.]

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings			
	Index July 1940	Percentage change from—		Index July 1940	Percentage change from—		July 1940	Percentage change from—		July 1940	Percentage change from—		July 1940	Percentage change from—		
		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939	June 1940
<i>Durable goods—Continued</i>																
Machinery, not including transportation equipment.....	118.1	+0.9	+21.3	125.7	+0.5	+33.7	\$30.29	-0.4	+10.3	40.5	-0.7	+6.5	<i>Cents</i>	74.4	+0.2	+2.8
Agricultural implements (including tractors).....	130.6	-4.9	+15.5	148.9	-5.7	+21.3	30.42	- .8	+5.1	38.3	- .6	+3.1		79.5	- .2	+1.7
Cash registers, adding machines, and calculating machines.....	129.6	- .6	+1.9	135.6	-1.8	+10.2	32.92	-1.2	+8.1	40.0	- .9	+6.7	82.7	- .4	+1.4	
Electrical machinery, apparatus, and supplies.....	103.3	+ .5	+19.6	118.1	- .2	+29.7	30.14	- .7	+8.5	39.8	- .8	+5.5	76.5	+ .1	+3.2	
Engines, turbines, water wheels, and windmills.....	167.5	+5.9	+74.1	223.8	+6.2	+103.1	35.14	+ .3	+16.7	43.7	- .5	+11.6	80.3	+ .5	+4.0	
Foundry and machine-shop products.....	98.0	+1.1	+18.6	96.3	+ .5	+28.7	29.34	- .6	+8.5	40.1	- .9	+6.2	73.0	+ .1	+1.8	
Machine tools.....	235.2	+2.6	+59.6	308.0	+1.7	+85.8	36.34	- .9	+16.4	47.6	- .8	+13.7	76.6	- .1	+2.5	
Radios and phonographs.....	143.4	+1.7	+10.6	138.5	+3.4	+21.9	23.90	+1.7	+10.2	38.6	+ .2	+1.7	62.1	+1.5	+8.7	
Textile machinery and parts.....	77.0	-2.5	- .2	73.4	- .9	-1.8	26.13	+1.6	-1.8	39.2	- .5	-3.1	66.8	+2.1	+1.4	
Typewriters and parts.....	114.3	+3.0	-5.2	116.9	+4.3	+3.1	25.05	+1.2	+8.8	38.5	+2.0	+7.3	65.1	- .7	+1.5	
Transportation equipment.....	97.6	-13.1	+22.2	96.2	-19.0	+25.6	31.88	-6.8	+2.8	36.2	-5.0	+3.7	89.1	-1.6	+ .6	
Aircraft.....	2,703.3	+7.3	+93.2	2,635.4	+4.8	+97.0	30.48	-2.3	+2.0	42.0	-1.8	+2.6	73.8	- .5	+ .8	
Automobiles.....	82.5	-21.4	+7.9	80.2	-28.4	+10.1	32.14	-8.9	+2.0	34.1	-8.4	- .3	94.9	- .5	+2.2	
Cars, electric- and steam-railroad.....	50.6	-1.2	+58.1	42.7	-5.7	+72.8	26.43	-4.6	+9.3	35.0	-4.7	+7.2	75.5	+ .1	+1.9	
Locomotives.....	31.1	+6.7	+8.3	31.3	+9.7	+18.2	30.99	+2.9	+9.2	39.1	+2.5	+5.2	79.2	+ .4	+3.7	
Shipbuilding.....	170.1	+4.5	+36.8	193.4	+4.1	+47.0	34.03	- .4	+7.5	39.3	+ .1	+4.9	86.2	- .7	+3.6	
Nonferrous metals and their products.....	106.9	+ .3	+17.1	105.8	0	+28.4	27.12	- .2	+9.6	38.6	- .4	+4.1	70.1	- .1	+5.3	
Aluminum manufactures.....	181.1	+2.6	+21.1	194.1	-5.0	+31.1	26.05	-7.4	+8.2	36.5	-8.1	+2.0	71.4	+ .8	+6.0	
Brass, bronze, and copper products.....	129.7	+2.1	+24.7	146.2	+3.8	+40.7	30.46	+1.7	+12.8	40.4	+1.4	+5.0	75.7	+ .2	+7.4	
Clocks and watches and time-recording devices.....	90.1	-1.2	+12.9	91.1	-1.2	+19.2	22.42	0	+5.6	37.6	+ .4	+3.8	59.5	- .4	+1.2	
Jewelry.....	93.2	+2.1	+7.1	75.8	- .7	+10.5	22.71	-2.7	+3.2	38.1	- .8	+2.5	58.1	-2.2	+ .7	
Lighting equipment.....	76.8	-8.4	+9.0	64.4	-7.9	+20.4	26.51	+ .5	+10.5	37.7	+2.6	+6.9	70.1	-2.0	+3.6	
Silverware and plated ware.....	63.1	-7.6	+ .7	51.2	-8.4	+ .7	23.39	- .9	-1.1	36.3	- .2	-1.4	64.6	- .4	+1.2	
Smelting and refining—copper, lead and zinc.....	89.0	+2.0	+17.1	86.8	+1.3	+23.0	27.29	- .7	+5.1	38.2	-1.0	+2.2	71.5	+ .3	+2.8	

Lumber and allied products	68.2	-1	+2.2	60.7	-4.6	+7.6	19.37	-4.4	+5.2	37.0	-3.7	+2	51.9	-7	+4.5
Furniture.....	87.7	-4	+4.0	74.3	-2.2	+9.2	20.28	-1.7	+4.9	37.1	-2.2	-5	55.0	+5	+4.4
Lumber:															
Millwork.....	62.6	+1.8	+4.8	48.8	+6	+7.5	21.66	-1.2	+2.6	39.7	-1.8	-8	54.8	+5	+3.2
Sawmills.....	61.5	-7	+8	53.9	-7.2	+6.6	18.02	-6.7	+5.5	36.4	-5.0	+7	49.6	-1.8	+4.7
Stone, clay, and glass products	82.6	-4	+3.6	71.4	-2.7	+8.3	23.55	-2.4	+4.5	35.5	-2.2	+1.6	66.5	+1	+3.2
Brick, tile, and terra cotta.....	64.1	+1.5	+4.2	51.8	+1.4	+11.6	20.72	-1	+7.1	37.1	-6	+2.2	55.3	+4	+5.1
Cement.....	72.0	-5	-7	68.4	-2.1	+5.6	27.12	-1.5	+1.2	37.9	-2.7	+1	71.5	+1.2	+1.0
Glass.....	104.2	-7	+8.2	106.2	-4.4	+16.0	24.93	-3.7	+7.2	33.7	-3.9	+4.1	74.2	+3	+3.5
Marble, granite, slate, and other products.....	47.5	-2.0	-12.3	34.2	-3.9	-14.3	25.33	-2.0	-2.2	34.7	-9	-3.4	73.7	-9	+1.5
Pottery.....	87.3	-2.5	+6.6	71.0	-6.5	+8.8	20.53	-4.0	+2.0	34.6	-2.3	-1.8	63.7	-5	+2.9
<i>Nondurable goods</i>															
Textiles and their products	94.5	+9	-3.5	77.7	+3.1	-1.9	16.85	+2.1	+1.6	33.8	+7	-4.4	50.2	+1.4	+5.5
Fabrics	88.0	+2.7	-3.2	76.4	+5.4	-3	16.71	+2.6	+3.0	34.8	+1.9	-3.6	48.6	+7	+6.2
Carpets and rugs.....	70.8	+9	-4.0	54.0	-1.2	-5.8	21.11	-2.0	-1.9	31.7	-1.9	-6.4	66.5	-1	+4.8
Cotton goods.....	88.0	+1.3	+2.7	78.2	+4.7	+8.0	14.43	+3.4	+5.2	34.9	+2.6	-3.7	41.2	+4	+8.6
Cotton small wares.....	74.0	+4	-6.9	69.2	+3.7	-5.2	18.12	+3.3	+1.7	37.0	+2.0	-3.2	49.0	+1.4	+5.3
Dyeing and finishing textiles.....	116.1	+3	-2.6	95.0	+2.2	-2.7	20.05	+1.9	-1	36.4	+2.7	-3.9	54.6	-7	+3.3
Hats, fur-felt.....	82.9	+16.4	-8.0	78.4	+36.3	-3.9	25.84	+17.1	+4.4	35.9	+12.8	+3.9	75.0	+3.6	+5.3
Hosiery.....	131.2	+7	-11.9	129.5	+1.3	-10.6	17.60	+5	+1.3	31.8	-1.4	-6.2	55.8	+1.3	+7.7
Knitted outerwear.....	66.1	+4.8	-8.4	53.8	+6.3	-4.9	17.37	+1.4	+3.7	35.9	+1.2	-1.9	47.2	+6	+5.5
Knitted underwear.....	72.4	-5	-1.1	63.0	-9	-2.6	14.63	-3	-1.4	34.3	-3	-7.7	43.4	+6	+8.2
Knitted cloth.....	136.3	+6.5	+3	117.1	+9.2	+2.7	19.34	+2.6	+2.5	39.0	+5.4	-1.4	48.5	-2.0	+3.3
Silk and rayon goods.....	69.5	+1.3	-12.6	46.6	+2.1	-9.0	15.82	+8	+4.4	34.3	+6	-3.1	45.8	+2	+7.5
Woolen and worsted goods.....	83.3	+10.0	-3.5	73.8	+13.0	+1.6	20.44	+2.7	+5.5	36.4	+2.7	-1.6	56.3	(?)	+6.6
Wearing apparel	194.9	-2.7	-4.2	75.6	-1.3	-5.1	17.26	+1.5	-1.0	31.9	-2.0	-6.2	53.4	+2.9	+4.4
Clothing, men's.....	103.2	+4.7	-1.8	76.7	+7.8	-2.2	19.35	+3.0	-3	32.2	-3	-4.0	59.8	+2.5	+3.9
Clothing, women's.....	137.3	-7.3	-4.6	89.0	-6.4	-8.1	17.27	+9	-3.6	31.6	-4.2	-9.5	52.0	+4.9	+3.2
Corsets and allied garments.....	102.5	-8.4	-8.3	99.7	-8.7	-12.0	16.11	-3	-4.0	34.2	+1	-8.8	47.2	+8	+4.8
Men's furnishings.....	109.8	(?)	-11.4	97.7	+3.0	-7.4	13.87	+2.9	+4.7	31.7	-2	-5.6	41.8	+1.7	+9.1
Millinery.....	54.5	-17.1	-2.5	36.5	-22.5	-4	19.84	-6.5	+2.1	29.2	-8.2	-3.9	64.8	-5.4	+5.0
Shirts and collars.....	110.6	-3.9	-5.9	87.8	-4.7	-3.8	12.71	-8	+2.2	32.0	-2	-3.4	40.9	+8	+7.8
Leather and its manufactures	91.6	+5.5	-8.1	76.4	+14.0	-8.6	19.80	+8.0	-6	35.9	+7.8	-6.5	55.3	+3	+6.7
Boots and shoes.....	90.7	+7.0	-8.4	74.6	+19.0	-8.9	18.75	+11.2	-6	35.7	+10.1	-7.1	53.2	+5	+7.7
Leather.....	89.1	+1	-6.3	76.0	+4	-7.4	23.69	+3	-1.2	36.7	-4	-4.0	64.6	+5	+2.9
Food and kindred products	135.5	+4.5	+4	131.4	+1.9	+2.2	24.33	-2.5	+1.8	39.9	-5	-5	62.4	-2.1	+2.3
Baking.....	147.1	+1	-5	142.1	+1.0	+2.2	26.69	+9	+2.8	41.8	+3	-4	64.0	+6	+2.9
Beverages.....	300.4	-4	-3	352.8	-6.1	-1.7	34.45	-5.7	-1.4	39.3	-5.5	-3.0	88.0	+7	+1.6
Butter.....	104.6	-4	+7	89.9	-9	+1.2	22.93	-5	+4	47.4	-7	-0.0	47.7	+1	+1.2
Canning and preserving.....	179.9	+28.0	-8.7	146.7	+25.2	-4.6	15.86	-2.2	+4.6	36.3	+5.0	+1.6	44.3	-7.2	-1
Confectionery.....	73.6	-1.5	+4.8	69.2	-4.3	+7.9	18.48	-2.8	-2.9	35.7	+3.3	+4.2	51.9	+6	-3
Flour.....	80.0	+3.2	-2.9	75.8	+4.9	-5.7	25.59	+1.7	-2.9	41.9	+1.8	-2.7	61.0	-2	+5.0
Ice cream.....	92.1	+2	-6	78.1	+3	+1.5	29.66	+1	+2.0	46.0	-1.7	-3.8	63.5	+1.7	+2
Slaughtering and meat packing.....	111.1	+2.7	+10.4	117.6	+5	+7.7	27.76	-2	-2.4	40.3	(?)	-3.1	68.9	-2	+6
Sugar, beet.....	57.7	+9.0	+8	55.5	+2.4	+3.5	24.88	-6.1	+2.6	35.8	-3.1	-8.4	72.3	-2.3	-4.3
Sugar refining, cane.....	101.1	+2.8	+3.3	91.4	+3.1	+13.5	25.45	+3	+10.0	39.3	+1.0	+8.9	64.7	-7	+1.0

See footnotes at end of table.

TABLE 5.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries, July 1940—Continued*

MANUFACTURING—Continued

[Indexes are based on 3-year average, 1923-25=100. New series—adjusted to 1937 Census of Manufactures for all industries except automobiles, and not comparable to indexes published in the July 1939 and earlier issues of the pamphlet. Comparable series available upon request.]

Industry	Employment			Pay rolls			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	Index July 1940	Percentage change from—		Index July 1940	Percentage change from—		July 1940	Percentage change from—		July 1940	Percentage change from—		July 1940	Percentage change from—	
		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939		June 1940	July 1939
<i>Nondurable goods—Continued</i>															
Tobacco manufactures	62.4	-3.9	-4.6	62.3	-6.9	+0.8	\$18.38	-3.2	+5.6	36.8	-3.3	-0.2	<i>Cents</i> 50.2	-0.5	+5.3
Chewing and smoking tobacco and snuff.....	56.1	-3.3	-5.2	66.5	-1.3	-1.2	19.16	+2.1	+4.2	35.4	+1.1	+1.1	54.3	+1.4	+4.6
Cigars and cigarettes.....	63.2	-3.7	-4.3	61.7	-7.6	+1.2	18.19	-4.0	+5.6	36.9	-3.7	-2.2	49.4	-1.7	+5.5
Paper and printing	114.7	+2	+4.2	111.2	-7	+9.0	29.00	-9	+4.6	38.	-	+2.3	79.1	-4	+2.8
Boxes, paper.....	116.2	+7	+5.9	127.4	-(?)	+9.3	21.82	-8	+3.1	39.0	-6	+6	56.6	-3	+2.8
Paper and pulp.....	117.0	+6	+10.6	126.4	+2	+24.9	26.48	-5	+12.8	40.8	-1.7	+6.8	64.9	+1.1	+5.4
Printing and publishing:															
Book and job.....	99.0	+1.9	-1	86.7	+1.8	+1.4	30.57	-1	+1.5	38.4	+9	+1	81.3	-8	+1.4
Newspapers and periodicals.....	113.5	-2.4	+1.4	106.1	-3.6	+3.8	37.72	-1.3	+2.4	35.5	-1.1	+5	103.3	-5	+2.5
Chemical, petroleum, and coal products	118.6	-4	+7.3	133.5	+2	+13.3	30.12	+7	+5.6	38.5	+1	+2.2	78.3	+8	+3.1
Petroleum refining.....	122.9	-2	+9	136.6	-4	+3.8	34.73	-2	+2.9	35.3	-9	+2.0	98.6	+5	+6
Other than petroleum refining.....	117.6	-4	+9.1	132.5	+3	+16.6	28.27	+7	+6.9	39.7	+4	+2.0	70.8	+1.0	+5.4
Chemicals.....	140.4	+1.5	+20.0	168.9	+2.2	+29.2	32.45	+7	+7.7	40.2	+4	+3.1	80.8	+3	+4.6
Cottonseed—oil, cake, and meal.....	45.3	-11.8	-8.1	43.4	-6.2	+4.2	15.15	+6.3	+13.4	42.4	+7.2	+1.9	33.9	-5	+11.7
Druggists' preparations.....	113.7	-1.9	+4.8	124.8	-1.0	+5.1	24.91	+8	+1	40.1	+4.3	-1.5	61.2	+1	+2.5
Explosives.....	132.7	+5.0	+45.6	166.8	+8.5	+62.3	34.43	+3.3	+11.4	40.9	+3.0	+6.9	83.9	+3	+4.3
Fertilizers.....	79.8	-9.9	+8.6	69.7	-11.1	+9.9	16.05	+4	-4	35.2	-2.5	-2.0	44.9	+3.0	+3.3
Paints and varnishes.....	124.6	-1.5	+2.0	132.4	-2.8	+6.8	29.13	-1.3	+3.7	40.4	-1.9	+1.1	72.1	+6	+2.4
Rayon and allied products.....	306.9	+3	+3.3	314.7	+1	+11.1	26.32	-1	+7.6	33.9	-4	+1.9	67.6	+3	+5.5
Soap.....	81.3	-3	-8	99.9	-5	+9	28.77	-3	+1.7	40.4	+1	+1.6	71.2	-3	+1
Rubber products	88.5	+1	+6.1	85.2	-1.4	+4.5	27.90	-1.5	-1.5	35.7	-2.1	-2.4	78.5	+6	+1.4
Rubber boots and shoes.....	53.6	-2.4	+18.7	50.7	-9.7	+19.3	21.81	-7.5	+5	35.5	-6.9	-3	61.0	-6	+9
Rubber tires and inner tubes.....	69.3	+1.2	+4.1	77.4	-2	+4	32.66	-1.4	-3.4	33.8	-1.5	-5.1	97.1	+4	+1.6
Rubber goods, other.....	137.8	-4	+5.4	131.9	-9	+8.6	23.30	-5	+3.0	38.0	-1.1	+2	62.2	+5	+3.3

NONMANUFACTURING

[Indexes are based on 12-month average, 1929=100]

Coal mining:																			
Anthracite ²	50.8	+1.4	+13.7	36.4	-10.5	+44.4	\$23.52	-11.7	+27.0	26.3	-9.9	+31.8	91.8	-0.4	-1.4				
Bituminous ²	84.9	+1.4	+7.0	75.5	+2.1	+17.0	23.65	+7	+9.4	26.6	-6	+10.9	89.1	+5	+6				
Metaliferous mining.....	70.6	+5	+16.9	62.1	-5.1	+28.0	27.34	-5.6	+9.5	38.0	-5.2	+4.5	72.2	-4	+5.1				
Quarrying and nonmetallic mining.....	47.9	-1	+7	43.3	-1.3	+5.9	22.63	-1.1	+5.1	39.8	-1.1	+2.0	56.8	+3	+3.5				
Crude-petroleum production.....	63.7	-1	-5.3	59.1	+4	-4.6	33.92	+5	+7	38.0	+1.6	+2	87.6	-8	+4				
Public utilities:																			
Telephone and telegraph ^{4 5}	78.9	+1.4	+3.2	102.4	+2.3	+6.0	31.75	+9	+2.6	40.0	+1.3	-(9)	79.8	-5	+1.2				
Electric light and power ^{4 5}	92.5	+1.4	+2.8	105.5	+6	+4.3	34.75	-8	+1.5	39.1	-4	+9	89.1	+1	+4				
Street railways and busses ^{4 5 6}	68.5	-(2)	-8	70.0	-7	+9	33.58	-7	+1.8	45.6	-1.4	+2	72.5	+4	+1.6				
Trade:																			
Wholesale ^{4 7}	89.7	+2	+2.0	78.5	+1	+3.5	30.41	0	+1.5	41.0	-4	-9	74.0	+4	+1.7				
Retail ^{4 8}	89.4	-2.7	+2.5	83.1	-2.0	+4.5	21.68	+8	+2.0	43.0	+1	(9)	55.3	+1.0	(9)				
Food ⁵	104.0	-8	+1.1	96.2	-1	+2.7	23.64	+7	+1.5	43.9	+7	(9)	52.6	+1	(9)				
General merchandising ^{4 8}	90.3	-6.1	+2.4	84.5	-5.4	+3.9	18.36	+9	+1.5	38.3	-1.3	(9)	47.8	+1.9	(9)				
Apparel ⁸	76.4	-13.2	+1.7	71.7	-10.8	+2.1	21.70	+2.6	+3	38.5	+8	(9)	56.2	+1.9	(9)				
Furniture ⁸	75.9	-2.3	-1.3	67.4	-4.1	+4	28.64	-1.9	+1.7	44.2	+2	(9)	69.8	-1.6	(9)				
Automotive ⁸	86.8	+3	+6.5	82.9	-6	+11.4	28.56	-9	+4.6	47.3	-3	(9)	60.2	-2	(9)				
Lumber ⁸	75.7	+8	+4.8	72.5	+1.5	+7.2	26.77	+7	+2.4	42.8	+1	(9)	63.3	+1.1	(9)				
Hotels (year-round) ^{3 4 9}	89.5	-2.7	-8	80.2	-2.3	+1.4	15.54	+5	+2.3	46.7	+8	+1.4	33.1	-7	+2.0				
Laundries ³	102.4	+3	+2.4	90.1	-2.5	+2.4	18.00	-2.8	-(2)	43.1	-1.9	-1.5	41.8	-9	+1.4				
Dyeing and cleaning ³	108.0	-4.1	+1.4	79.9	-10.8	+3.7	20.06	-7.0	+2.2	42.5	-5.7	+2	48.6	-1.0	+1.8				
Brokerage ⁴	(9)	-1.5	+1.6	(9)	-3.3	-3	36.05	-1.8	-1.9	(9)	(9)	(9)	(9)	(9)	(9)				
Insurance ⁴	(9)	+7	+1.4	(9)	+2.0	+4.7	37.39	+1.3	+3.2	(9)	(9)	(9)	(9)	(9)	(9)				
Building construction.....	(9)	+5.9	+10.7	(9)	+5.2	+13.8	31.78	-6	+2.7	33.6	-4	+6	94.7	-2	+2.0				

¹ Revised series. Mimeographed sheets giving averages by years, 1932 to 1938, inclusive, and by months, January 1938 to September 1939, inclusive, available on request. A average hours and average hourly earnings are computed from data supplied by a smaller number of establishments than average weekly earnings, as not all reporting firms furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.

² Less than 1/10 of 1 percent.

³ Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.

⁴ A average weekly earnings, hourly earnings, and hours not comparable with figures published in pamphlets prior to January 1938, as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁵ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in Monthly Labor Reviews prior to April 1940. Comparable series for earlier months available upon request.

⁶ Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly ⁴electric-railroad and motorbus operation and maintenance.

⁷ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of pamphlet.

⁸ Not available.

⁹ Cash payments only; value of board, room, and tips not included.

TABLE 6.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries*

MANUFACTURING

[Indexes are based on 3-year average, 1923-25=100, and are adjusted to 1937 Census of Manufactures for all industries except automobiles. Not comparable to indexes published in pamphlets prior to August 1939. Comparable series available upon request]

Industry	Employment index			Pay-roll index			Average weekly earnings ¹			Average hours worked per week ¹			Average hourly earnings ¹		
	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940
All manufacturing	99.5	99.4	99.0	98.5	97.9	96.3	\$25.25	\$25.79	\$25.43	37.3	37.5	37.2	Cents 66.7	Cents 67.2	Cents 66.9
Durable goods.....	95.6	97.0	96.5	98.0	100.0	97.5	28.52	29.48	28.80	37.9	38.7	38.2	72.7	73.2	73.0
Nondurable goods.....	103.3	101.8	101.5	97.1	95.5	94.9	21.87	21.81	21.72	36.7	36.4	36.3	61.5	61.7	61.6
<i>Durable goods</i>															
Iron and steel and their products, not including machinery	108.2	108.7 ²	101.9	104.3	102.8	97.2	28.89	29.30	28.16	37.2	37.6	36.6	77.7	77.4	76.7
Blast furnaces, steel works, and rolling mills.....	119.0	114.3	109.1	116.2	113.9	103.1	30.75	31.53	29.87	36.4	37.1	35.5	84.9	84.9	84.2
Bolts, nuts, washers, and rivets.....	109.1	104.2	105.8	113.1	111.3	109.8	25.04	25.79	25.07	36.1	37.3	36.5	69.5	69.1	68.7
Cast-iron pipe.....	78.2	76.8	75.8	74.9	70.0	66.8	22.97	21.80	21.00	37.9	35.9	34.6	60.3	60.5	60.3
Cutlery (not including silver and plated cutlery) and edge tools.....	98.8	101.2	102.5	90.6	91.6	92.0	23.81	23.63	23.40	38.6	38.6	38.7	62.4	62.0	61.4
Forgings, iron and steel.....	67.8	66.0	66.7	77.6	74.1	73.4	30.90	30.48	29.90	39.4	39.1	38.5	78.7	78.1	77.7
Hardware.....	82.9	81.6	85.9	85.7	85.8	101.9	25.45	25.85	26.14	37.3	38.0	37.8	68.3	68.0	69.2
Plumbers' supplies.....	84.3	82.9	81.8	74.2	73.0	72.7	25.63	25.70	25.94	36.6	36.8	37.1	70.1	70.0	70.0
Stamped and enameled ware.....	152.4	152.7	156.4	166.1	162.6	162.1	25.93	25.34	24.67	38.6	38.3	38.1	67.2	65.7	64.3
Steam and hot-water heating apparatus and steam fittings.....	84.2	85.1	85.0	78.0	76.6	74.5	28.25	27.47	26.77	39.8	39.2	37.8	71.1	70.3	70.9
Stoves.....	91.8	92.6	91.1	81.3	82.7	84.0	25.21	25.49	26.35	37.4	37.3	38.4	67.7	68.4	68.8
Structural and ornamental metalwork.....	76.0	73.5	71.1	67.6	64.8	61.7	28.87	28.56	28.13	39.0	38.6	38.0	73.8	74.1	74.1
Tin cans and other tinware.....	105.9	102.8	95.6	113.4	113.5	100.9	24.38	25.04	24.04	39.1	39.8	38.6	62.7	63.2	62.4
Tools (not including edge tools, machine tools, files, and saws).....	94.0	91.6	92.0	91.7	88.6	90.2	24.60	24.42	24.75	39.0	38.9	39.6	63.1	62.8	62.7
Wirework.....	136.2	152.1	161.1	140.8	161.0	169.7	25.96	26.48	26.42	37.1	37.5	37.2	70.0	70.7	71.1
Machinery, not including transportation equipment	116.1	115.1	113.9	125.7	125.1	122.3	30.29	30.41	30.11	40.5	40.8	40.5	74.4	74.3	74.1
Agricultural implements (including tractors).....	130.6	137.3	139.6	148.9	157.8	164.0	30.42	30.74	31.42	38.3	38.6	39.4	79.5	79.8	79.9
Cash registers, adding machines, and calculating machines.....	129.6	130.4	129.0	135.6	138.0	133.5	32.92	33.32	32.58	40.0	40.4	39.7	82.7	83.0	82.4
Electrical machinery, apparatus, and supplies.....	103.8	103.3	101.9	118.1	118.3	114.3	30.14	30.52	30.01	39.8	40.2	39.8	76.5	76.4	75.7
Engines, turbines, water wheels, and windmills.....	167.5	158.1	148.9	223.8	210.7	193.8	35.14	35.05	34.21	43.7	43.8	43.1	80.3	80.3	79.7

Foundry and machine-shop products.....	98.0	96.9	96.5	96.3	95.8	94.6	29.34	29.41	29.29	40.1	40.4	40.1	73.0	72.8	73.0
Machine tools.....	235.2	229.1	221.1	308.0	302.9	289.7	36.34	36.68	36.35	47.6	47.9	47.5	76.6	76.6	76.6
Radios and phonographs.....	143.4	141.0	136.5	138.5	134.0	126.9	23.90	23.61	23.09	38.6	38.5	38.2	62.1	61.4	60.6
Textile machinery and parts.....	77.0	79.0	82.2	73.4	74.1	77.0	26.13	25.70	25.71	39.2	39.4	39.6	66.8	65.4	65.1
Typewriters and parts.....	114.3	111.0	113.1	116.9	112.1	114.0	25.05	24.75	24.73	38.5	37.7	38.1	65.1	65.6	64.9
Transportation equipment.....	97.6	112.3	115.0	96.2	118.8	118.6	31.88	34.21	32.83	36.2	38.1	36.7	89.1	90.5	90.2
Aircraft.....	2,703.3	2,518.7	2,328.2	2,635.4	2,514.0	2,212.6	30.48	31.18	29.69	42.0	42.7	41.2	73.8	74.2	73.2
Automobiles.....	82.5	104.9	109.8	80.2	112.0	111.1	32.14	35.28	33.47	34.1	37.0	35.4	94.9	95.5	94.7
Cars, electric, and steam-railroad.....	50.6	51.2	55.7	42.7	45.3	49.9	26.43	27.68	28.05	35.0	36.7	37.2	75.5	75.3	75.4
Locomotives.....	31.1	29.1	28.2	31.3	28.5	26.9	30.99	30.12	29.35	39.1	38.2	37.4	79.2	78.9	78.5
Shipbuilding.....	170.1	162.8	158.2	193.4	185.8	180.4	34.03	34.24	34.20	39.3	39.2	39.5	86.2	86.9	86.2
Nonferrous metals and their products.....	106.9	106.6	105.3	105.8	105.8	103.6	27.12	27.25	27.02	38.6	39.0	38.8	70.1	70.2	70.1
Aluminum manufactures.....	181.1	176.5	172.9	194.1	204.3	201.5	26.05	28.20	28.38	36.5	39.7	39.8	71.4	71.0	71.3
Brass, bronze, and copper products.....	129.7	127.1	125.5	146.2	140.8	134.2	30.46	29.95	29.00	40.4	39.8	38.8	75.7	75.5	75.0
Clocks and watches and time-recording devices.....	90.1	91.1	89.7	91.1	92.2	94.0	22.42	22.44	23.25	37.6	37.5	38.9	59.5	59.8	59.7
Jewelry.....	93.2	91.2	88.7	75.8	76.3	72.6	22.71	23.35	22.84	38.1	38.7	37.7	58.1	59.5	59.9
Lighting equipment.....	76.8	83.9	84.1	64.4	70.0	72.4	26.51	26.38	27.21	37.7	36.9	38.3	70.1	71.5	71.0
Silverware and plated ware.....	63.1	68.3	70.4	51.2	55.9	61.3	23.39	23.58	25.06	36.3	36.5	38.6	64.6	64.7	65.1
Smelting and refining—copper, lead, and zinc.....	89.0	87.2	85.5	86.8	85.7	84.3	27.29	27.57	27.71	38.2	38.7	38.9	71.5	71.3	71.2
Lumber and allied products.....	68.2	68.3	68.0	60.7	63.6	63.3	19.37	20.17	20.22	37.0	38.5	38.7	51.9	52.3	52.1
Furniture.....	87.7	88.1	87.3	74.3	75.9	74.8	20.28	20.67	20.59	37.1	38.1	38.0	55.0	54.8	54.6
Lumber:															
Millwork.....	62.6	61.5	60.7	48.8	48.5	47.8	21.66	22.02	22.02	39.7	40.2	40.3	54.8	54.5	54.6
Sawmills.....	61.5	61.9	61.9	53.9	58.1	58.3	18.02	19.32	19.43	36.4	38.3	38.7	49.6	50.5	50.3
Stone, clay, and glass products.....	82.6	82.9	82.0	71.4	73.4	74.6	23.56	24.20	24.79	35.5	36.3	37.1	66.5	66.4	66.4
Brick, tile, and terra cotta.....	64.1	63.1	60.9	51.8	51.1	49.2	20.72	20.74	20.65	37.1	37.4	37.4	55.3	55.1	55.1
Cement.....	72.0	72.4	70.8	68.4	69.9	69.2	27.12	27.42	27.78	37.9	38.9	39.3	71.5	70.4	70.6
Glass.....	104.2	104.9	104.4	106.2	111.0	112.0	24.93	25.89	26.18	33.7	35.1	35.6	74.2	74.0	73.9
Marble, granite, slate, and other products.....	47.5	48.5	49.1	34.2	35.6	38.8	25.33	25.84	27.84	34.7	34.9	37.9	73.7	74.4	73.3
Pottery.....	87.3	89.5	90.6	71.0	75.8	84.2	20.53	21.52	23.64	34.6	35.4	37.5	63.7	64.0	63.8
<i>Nondurable goods</i>															
Textiles and their products.....	94.5	93.7	96.0	77.7	75.4	77.9	16.85	16.43	16.52	33.8	33.5	33.7	50.2	49.6	49.6
Fabrics.....	88.0	85.7	87.0	76.4	72.5	73.9	16.71	16.24	16.35	34.8	34.1	34.3	48.6	48.4	48.4
Carpets and rugs.....	70.8	70.2	75.7	54.0	54.6	59.9	21.11	21.55	21.91	31.7	32.4	32.7	66.5	66.6	67.0
Cotton goods.....	88.0	86.9	88.8	78.2	74.7	78.1	14.43	13.92	14.24	34.9	34.0	34.5	41.2	41.0	41.2
Cotton small wares.....	74.0	73.8	76.0	69.2	66.8	68.2	18.12	17.54	17.38	37.0	36.3	35.9	49.0	48.7	48.6
Dyeing and finishing textiles.....	116.1	115.7	122.6	95.0	93.0	98.9	20.05	19.67	19.70	36.4	35.5	35.6	54.6	54.9	54.9
Hats, fur-felt.....	82.9	71.2	66.2	78.4	57.5	46.0	25.84	22.08	18.98	35.9	31.6	26.3	75.0	72.4	71.7
Hosiery.....	131.2	130.2	133.7	129.5	127.9	133.5	17.60	17.52	17.81	31.8	32.2	32.5	55.8	55.3	55.8
Knitted outerwear.....	66.1	63.1	61.6	53.8	50.6	49.9	17.37	17.13	17.30	35.9	35.8	36.0	47.2	47.1	47.5
Knitted underwear.....	72.4	72.8	73.6	63.0	63.6	64.9	14.63	14.68	14.82	34.3	34.4	34.6	43.4	43.0	43.0
Knitted cloth.....	136.3	128.0	127.4	117.1	107.2	103.5	19.34	18.76	18.26	39.0	37.0	36.3	48.5	49.5	48.9
Silk and rayon goods.....	60.5	59.7	62.1	46.6	45.6	48.6	15.82	15.78	16.15	34.3	34.2	35.1	45.8	45.8	45.7
Woolen and worsted goods.....	83.3	75.7	71.8	73.8	65.4	60.3	20.44	19.87	19.38	36.4	35.3	34.5	56.3	56.3	56.3

See footnotes at end of table.

TABLE 6.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued*

MANUFACTURING—Continued

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940
<i>Nondurable goods—Continued</i>															
Textiles and their products—Continued.													<i>Cents</i>	<i>Cents</i>	<i>Cents</i>
Wearing apparel.....	104.9	107.9	112.2	75.6	76.6	81.0	\$17.26	\$16.96	\$16.97	31.9	32.5	32.7	53.4	51.8	51.8
Clothing, men's.....	103.2	98.6	95.1	76.7	71.1	64.6	19.35	18.69	17.59	32.2	32.3	31.0	59.8	58.1	57.3
Clothing, women's.....	137.3	148.1	162.6	89.0	95.1	112.3	17.27	17.22	18.59	31.6	32.7	33.8	52.0	49.6	51.2
Corsets and allied garments.....	102.5	111.9	114.4	99.7	109.2	116.5	16.11	16.16	16.82	34.2	34.0	35.5	47.2	46.6	46.6
Men's furnishings.....	109.8	109.7	115.0	97.7	94.9	96.2	13.87	13.48	13.05	31.7	31.9	32.4	41.8	41.1	39.8
Millinery.....	54.5	65.7	74.6	36.5	47.1	54.1	19.84	21.08	21.40	29.2	31.6	32.3	64.8	68.5	66.3
Shirts and collars.....	110.6	115.1	121.2	87.8	92.0	101.2	12.71	12.84	13.43	32.0	32.1	33.4	40.9	40.7	40.5
Leather and its manufactures.....	91.6	86.8	86.8	76.4	67.0	63.6	19.80	18.17	17.26	35.9	33.2	30.9	55.8	55.8	55.5
Boots and shoes.....	90.7	84.8	84.6	74.6	62.7	58.1	18.75	16.87	15.65	35.7	32.3	29.5	53.2	53.1	53.3
Leather.....	80.1	80.1	80.6	76.0	75.7	76.7	23.69	23.56	23.74	36.7	36.9	37.0	64.6	64.2	64.2
Food and kindred products.....	135.5	129.7	121.7	131.4	129.0	121.5	24.33	25.54	25.64	39.9	40.1	40.1	62.4	64.1	64.7
Baking.....	147.1	147.0	144.8	142.1	140.8	137.8	26.69	26.57	26.46	41.8	41.7	41.7	64.0	63.9	63.7
Beverages.....	300.4	301.5	278.7	352.8	375.6	330.6	34.45	36.52	34.68	39.3	41.6	40.0	88.0	88.7	87.9
Butter.....	104.6	105.0	99.9	89.9	90.8	84.8	22.93	23.04	22.63	47.4	47.7	46.8	47.7	47.6	47.9
Canning and preserving.....	179.9	140.5	100.1	146.7	117.2	89.5	15.86	16.21	17.37	36.3	34.3	34.9	44.3	47.7	50.7
Confectionery.....	73.6	74.7	76.1	69.2	72.3	75.4	18.48	18.98	19.46	35.7	36.8	37.9	51.9	51.6	51.5
Flour.....	80.0	77.6	78.5	75.8	72.3	73.1	25.59	25.13	25.17	41.9	41.2	41.1	61.0	61.1	60.7
Ice cream.....	92.1	92.0	83.8	78.1	77.9	70.1	29.66	29.63	29.30	46.0	46.6	46.2	63.5	62.5	63.0
Slaughtering and meat packing.....	111.1	108.2	105.7	117.6	114.7	110.4	27.76	27.82	27.43	40.3	40.2	39.9	68.9	69.1	68.8
Sugar, beet.....	57.7	52.9	47.4	55.5	54.2	49.3	24.88	26.55	27.04	35.8	37.1	37.9	72.3	74.0	74.2
Sugar refining, cane.....	101.1	98.3	95.2	91.4	88.7	80.0	25.45	25.37	23.64	39.3	38.9	37.1	64.7	65.2	63.6
Tobacco manufactures.....	62.4	64.9	62.2	62.3	66.9	60.7	18.98	18.98	18.02	36.8	38.1	36.4	50.2	50.5	49.7
Chewing and smoking tobacco and snuff.....	56.1	58.0	58.6	66.5	67.4	66.5	19.16	18.77	18.38	35.4	35.4	34.7	54.3	53.5	53.2
Cigars and cigarettes.....	63.2	65.7	62.6	61.7	66.7	59.9	18.19	19.03	17.92	36.9	38.4	36.6	49.4	50.1	49.3
Paper and printing.....	114.7	114.5	115.0	111.2	112.0	113.1	29.00	29.27	29.38	38.4	38.5	38.8	79.1	79.7	79.4
Boxes, paper.....	116.2	115.3	114.0	127.4	127.4	124.6	21.82	21.99	21.72	39.0	39.0	38.7	56.6	56.7	56.3
Paper and pulp.....	117.0	116.2	115.2	126.4	126.2	124.2	26.48	26.70	26.52	40.8	41.5	41.6	64.9	64.4	63.8
Printing and publishing:															
Book and job.....	99.0	97.1	99.3	86.7	85.1	88.4	30.57	30.59	31.11	38.4	37.9	38.7	81.3	82.0	82.1
Newspapers and periodicals.....	113.5	116.2	117.1	106.1	110.1	112.3	37.72	38.21	38.56	35.5	36.0	36.2	103.3	103.8	103.5

Chemical, petroleum, and coal products.....	118.5	119.0	120.6	133.4	133.2	133.5	30.12	30.08	29.73	38.5	38.5	38.8	78.3	77.7	78.0
Petroleum refining.....	122.9	123.2	121.8	136.6	137.1	136.8	34.73	34.84	35.14	35.3	35.7	36.2	98.6	98.3	97.5
Other than petroleum refining.....	117.4	118.0	120.4	132.4	132.0	132.5	28.27	28.09	27.47	39.7	39.6	39.7	70.9	70.2	68.6
Chemicals.....	140.4	138.3	136.2	168.9	165.2	161.9	32.45	32.23	32.09	40.2	40.0	40.0	80.8	80.6	80.3
Cottonseed—oil, cake, and meal.....	45.3	51.4	63.8	43.4	46.3	56.6	15.15	14.27	14.02	42.4	39.5	39.6	33.9	34.3	34.2
Druggists' preparations.....	113.7	115.8	118.4	124.8	126.1	128.5	24.91	24.71	24.64	40.1	38.3	39.0	61.2	61.1	60.5
Explosives.....	132.7	126.4	118.0	166.8	153.7	141.2	34.43	33.32	32.80	40.9	39.9	39.7	83.9	83.6	82.5
Fertilizers.....	79.8	88.5	128.8	69.7	78.4	118.1	16.05	15.99	16.50	35.2	36.1	38.4	44.9	44.3	43.0
Paints and varnishes.....	124.6	126.4	125.9	132.4	136.2	136.3	29.13	29.55	29.62	40.4	41.2	41.4	72.1	71.7	71.6
Rayon and allied products.....	306.9	306.0	304.3	314.7	314.3	311.4	26.32	26.36	26.27	38.9	39.1	39.0	67.6	67.6	67.3
Soap.....	81.3	81.5	81.4	99.9	100.4	98.0	28.77	28.85	28.19	40.4	40.4	39.5	71.2	71.5	71.4
Rubber products.....	83.5	83.4	83.8	85.2	86.4	87.1	27.90	28.27	28.39	35.7	36.4	36.4	78.5	78.0	77.8
Rubber boots and shoes.....	53.6	54.9	54.1	50.7	56.2	53.8	21.81	23.50	22.85	35.5	38.3	37.3	61.0	61.4	61.3
Rubber tires and inner tubes.....	69.3	68.5	69.0	77.4	77.5	79.9	32.66	33.11	33.88	33.8	34.3	35.1	97.1	96.7	96.8
Rubber goods other.....	137.8	138.4	139.6	131.9	133.1	131.3	23.30	23.42	22.87	38.0	38.2	37.7	62.2	61.9	61.4

NONMANUFACTURING

[Indexes are based on 12-month average, 1929=100]

Coal mining:															
Anthracite ²	50.8	50.2	52.2	36.4	40.6	40.0	\$23.52	\$26.63	\$25.20	26.3	29.3	27.9	91.8	92.2	91.6
Bituminous ²	84.9	83.8	85.1	75.5	73.9	75.3	23.65	23.48	23.85	26.6	26.8	27.1	89.1	88.7	88.2
Metaliferous mining.....	70.6	70.3	69.2	62.1	65.4	65.7	27.34	28.95	29.59	38.0	40.1	41.2	72.2	72.5	72.2
Quarrying and nonmetallic mining.....	47.9	47.9	46.9	43.3	43.9	42.7	22.63	22.89	22.74	39.8	40.2	40.3	56.8	56.7	56.1
Crude-petroleum production.....	63.7	63.8	63.3	59.1	58.8	58.7	33.92	33.74	34.05	38.0	37.4	38.3	87.6	88.3	87.3
Public utilities:															
Telephone and telegraph ^{3 4}	78.9	77.8	77.3	102.4	100.0	98.8	31.75	31.54	31.43	40.0	39.5	39.3	79.8	80.3	80.4
Electric light and power ^{3 4}	92.5	91.2	90.6	105.5	104.8	104.2	34.75	35.03	35.09	39.1	39.3	40.1	89.1	89.0	87.4
Street railways and busses ^{3 4 5}	68.5	68.5	68.4	70.0	70.5	69.2	33.58	33.80	33.39	45.6	46.3	46.1	72.5	72.3	71.6
Trade:															
Wholesale ^{3 6}	89.7	89.6	88.9	78.5	78.4	77.4	30.41	30.41	30.54	41.0	41.2	41.4	74.0	73.7	74.1
Retail ^{3 4}	89.4	91.9	91.2	83.1	84.8	83.4	21.68	21.51	21.32	43.0	42.9	42.6	55.3	54.8	54.5
Food ⁴	104.0	104.8	104.3	96.2	96.3	95.2	23.64	23.48	23.38	43.9	43.5	43.1	52.6	52.5	52.5
General merchandising ^{3 4}	90.3	96.2	95.1	84.5	89.3	86.6	18.36	18.20	17.88	38.3	38.9	38.2	47.8	46.9	46.1
Apparel ⁴	76.4	88.0	87.1	71.7	80.4	78.4	21.70	21.15	20.99	38.5	38.2	38.0	56.2	55.2	54.7
Furniture ⁴	75.9	77.7	77.7	67.4	70.3	70.8	28.64	29.19	29.04	44.2	44.1	44.0	69.8	70.9	68.9
Automotive ⁴	86.8	86.5	86.1	82.9	83.4	82.6	28.56	28.82	28.63	47.3	47.5	47.5	60.2	60.3	60.1
Lumber ⁴	75.7	75.1	74.6	72.5	71.4	70.7	26.77	26.58	26.60	42.8	42.7	42.9	63.3	62.6	62.7

See footnotes at end of table.

TABLE 6.—*Employment, Pay Rolls, Hours, and Earnings in Manufacturing and Nonmanufacturing Industries—Continued*

NONMANUFACTURING—Continued

[Indexes are based on 12-month average, 1929=100]

Industry	Employment index			Pay-roll index			Average weekly earnings			Average hours worked per week			Average hourly earnings		
	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940	July 1940	June 1940	May 1940
Hotels (year-round) ^{2 3 7}	89.5	92.0	93.4	80.2	82.0	83.0	\$15.54	\$15.47	\$15.36	46.7	46.3	46.3	<i>Cents</i> 33.1	<i>Cents</i> 33.3	<i>Cents</i> 33.1
Laundries ³	102.4	102.1	99.1	90.1	92.4	88.5	18.00	18.51	18.32	43.1	43.9	43.5	41.8	42.2	42.1
Dyeing and cleaning ¹	108.0	112.6	108.7	79.9	89.6	85.4	20.06	21.57	21.46	42.5	45.0	44.7	48.6	49.1	48.9
Brokerage ^{3 8}	-1.5	-.2	+4	-3.3	-1.6	-1.0	36.05	36.73	37.42	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)
Insurance ^{3 4}	+7	+4	+3	+2.0	-.2	+7	37.39	36.90	37.01	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(⁹)
Building construction ⁵	+5.9	+5.1	+13.6	+5.2	+5.0	+19.5	31.78	31.94	31.99	33.6	33.8	33.5	94.7	94.8	95.5

¹ Revised series. Mimeographed sheets, giving averages by years, 1932 to 1938, inclusive, and by months, January 1938 to September 1939, inclusive, available on request. Average hours and average hourly earnings are computed from data supplied by a smaller number of establishments than average weekly earnings, as not all reporting firms furnish man-hours. The figures are not strictly comparable from month to month because of changes in the size and composition of the reporting sample.

² Indexes adjusted to 1935 census. Comparable series back to January 1929 presented in January 1938 issue of pamphlet.

³ Average weekly earnings, hourly earnings, and hours not comparable with figures published in pamphlets prior to January 1938 as they now exclude corporation officers, executives, and other employees whose duties are mainly supervisory.

⁴ Retail-trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable to indexes published in pamphlets prior to January 1940 or in Monthly

Labor Reviews prior to April 1940. Comparable series for earlier months available upon request.

⁵ Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies; formerly "electric-railroad and motorbus operation and maintenance."

⁶ Indexes adjusted to 1933 census. Comparable series in November 1934 and subsequent issues of pamphlet.

⁷ Cash payments only; value of board, room, and tips not included.

⁸ Indexes of employment and pay rolls are not available; percentage changes from preceding month substituted.

⁹ Not available.

TABLE 7.—Indexes of Employment and Pay Rolls in Selected Manufacturing ¹ and Non-manufacturing ² Industries, July 1939 to July 1940, Inclusive

Industry	Employment													
	1939						1940							
	Av.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<i>Manufacturing</i>														
All Industries	96.8	93.5	96.3	100.2	103.6	103.8	104.1	101.4	101.4	100.8	99.6	99.0	99.4	99.5
Durable goods ³	87.8	83.0	83.9	89.8	96.1	98.2	100.0	97.4	96.6	96.4	96.0	96.5	97.0	95.6
Nondurable goods ⁴	105.5	103.5	108.1	110.2	110.8	109.2	108.0	105.3	106.3	105.1	103.0	101.5	101.7	103.3
<i>Nonmanufacturing</i>														
Anthracite mining ⁵	50.6	44.7	48.5	49.4	51.9	51.3	51.0	51.5	52.0	52.6	51.6	52.2	50.2	50.8
Bituminous-coal mining ⁶	78.6	79.4	81.4	85.4	93.0	94.9	92.6	91.8	91.7	89.7	86.2	85.1	83.8	84.9
Metalliferous mining	62.7	60.4	60.4	62.9	65.3	66.5	67.3	66.4	66.3	66.2	67.7	69.2	70.3	70.6
Quarrying and nonmetallic mining	44.6	47.5	48.1	47.9	48.0	47.1	44.0	37.8	38.3	41.0	44.5	46.9	47.9	47.9
Crude-petroleum production	65.8	67.3	66.7	65.0	64.3	63.8	63.8	63.2	63.0	63.2	63.1	63.3	63.8	63.7
Telephone and telegraph ⁶	75.8	76.5	76.6	76.4	76.5	76.1	75.8	76.1	75.9	76.0	76.7	77.3	77.8	78.9
Electric light and power ⁶	89.0	90.0	90.6	90.6	90.4	90.3	90.1	89.1	89.1	89.3	90.0	90.6	91.2	92.5
Street railways and busses ^{6 7}	69.0	69.1	69.2	69.2	69.5	69.3	69.0	68.8	68.7	68.2	68.3	68.4	68.5	68.5
Wholesale trade	89.2	87.9	89.0	90.5	92.4	92.1	92.2	90.6	90.2	90.5	89.3	88.9	89.6	89.7
Retail trade ⁶	89.8	87.2	86.3	90.5	91.7	93.3	104.2	87.7	87.0	91.1	89.8	91.2	91.9	89.4
Year-round hotels ⁸	92.0	90.3	89.8	91.3	92.9	91.8	90.8	91.3	92.1	92.0	92.7	93.4	92.0	89.5
Laundries ⁹	95.9	100.0	99.1	97.8	96.0	95.6	95.6	96.0	95.8	96.2	97.2	99.1	102.1	102.4
Dyeing and cleaning ⁵	101.3	106.5	102.7	105.2	105.1	97.8	97.4	94.0	93.7	99.5	104.5	108.7	112.6	108.0
<i>Pay rolls</i>														
All industries	90.8	84.4	89.7	93.8	101.6	101.6	103.7	98.3	97.8	98.2	96.3	96.3	97.9	96.5
Durable goods ³	85.2	76.0	81.5	87.8	99.6	100.9	104.6	98.2	96.7	97.6	97.2	97.5	100.0	96.0
Nondurable goods ⁴	97.0	93.7	99.0	100.5	103.9	102.4	102.8	98.4	99.1	99.0	95.4	94.9	95.5	97.1
<i>Nonmanufacturing</i>														
Anthracite mining ⁵	39.5	25.2	33.8	40.1	52.2	42.0	26.6	52.5	32.9	38.4	36.3	40.0	40.6	36.4
Bituminous-coal mining ⁶	69.9	64.5	74.6	80.2	97.6	96.3	84.3	87.0	87.0	78.3	72.2	75.3	73.9	75.5
Metalliferous mining	56.0	48.5	53.0	55.1	63.4	63.9	65.0	63.6	64.2	63.2	63.5	65.7	65.4	62.1
Quarrying and nonmetallic mining	38.7	40.9	42.9	42.7	45.6	42.9	39.2	29.6	30.8	34.1	38.1	42.7	43.9	43.3
Crude-petroleum production	61.0	61.9	62.0	60.8	58.8	59.6	59.2	58.4	59.0	58.4	59.0	58.7	58.8	59.1
Telephone and telegraph ⁶	95.6	96.6	96.3	96.9	97.2	96.4	97.4	97.4	96.9	98.1	98.7	98.8	100.0	102.4
Electric light and power ⁶	100.4	101.1	102.2	102.2	102.0	102.5	102.4	101.6	102.2	102.3	103.3	104.2	104.8	105.5
Street railways and busses ^{6 7}	69.5	69.4	69.8	69.2	71.2	69.4	69.8	69.0	71.5	69.5	69.2	69.2	70.5	70.0
Wholesale trade	76.6	75.8	76.2	78.0	80.3	79.0	79.1	77.1	77.1	77.8	77.4	77.4	78.4	78.5
Retail trade ⁶	80.8	79.5	78.0	80.9	83.2	83.6	91.8	79.9	79.1	82.0	82.3	83.4	84.8	83.1
Year-round hotels ⁸	81.2	79.1	79.2	80.4	82.2	81.8	81.1	81.1	82.7	81.8	83.2	83.0	82.0	80.2
Laundries ⁹	83.1	88.0	85.9	84.5	83.9	82.9	83.7	83.4	83.1	84.1	85.6	88.5	92.4	90.1
Dyeing and cleaning ⁵	73.6	77.1	73.0	78.3	77.3	70.8	69.9	65.5	64.4	72.7	79.6	85.4	89.6	79.9

¹ 3-year average 1923-25=100—adjusted to 1937 Census of Manufactures.

² 12-month average for 1929=100. Comparable indexes for wholesale trade, quarrying, metal mining, and crude petroleum production are in November 1934 and subsequent issues of *Employment and Pay Rolls*, or in February 1935 and subsequent issues of *MONTHLY LABOR REVIEW*. For other nonmanufacturing indexes see notes 5 and 6.

³ Indexes: Iron and steel, machinery, transportation equipment, nonferrous metals, lumber and allied products, and stone, clay, and glass products.

⁴ Includes: Textiles and their products, leather and its manufactures, food and kindred products, tobacco manufactures, paper and printing, chemicals and allied products, products of petroleum and coal, rubber products, and a number of miscellaneous industries not included in other groups.

⁵ Indexes have been adjusted to the 1935 census. Comparable series from January 1929 forward are presented in January 1938 and subsequent issues of pamphlet.

⁶ Retail trade indexes adjusted to 1935 census and public-utility indexes to 1937 census. Not comparable with indexes published in pamphlets prior to January 1940 or in *MONTHLY LABOR REVIEW* prior to April 1940. Comparable series January 1929 to December 1939 available in mimeographed form.

⁷ Covers street railways and trolley and motorbus operations of subsidiary, affiliated, and successor companies.

**INDUSTRIAL AND BUSINESS EMPLOYMENT IN PRINCIPAL
METROPOLITAN AREAS**

A comparison of employment and pay rolls in June and July 1940 is made in table 8 for 13 metropolitan areas, each of which had a population of 500,000 or over in 1930. Cities within these areas but having a population of 100,000 or over are not included. Footnotes to the table specify which cities are excluded. Data concerning them have been prepared in a supplementary tabulation which is available on request. The figures represent reports from cooperating establishments and cover both full- and part-time workers in the manufacturing and nonmanufacturing industries presented in table 3, with the exception of building construction, and include also miscellaneous industries.

Revisions made in the figures after they have gone to press, chiefly because of late reports by cooperating firms, are incorporated in the supplementary tabulation mentioned above. This supplementary tabulation covers these 13 metropolitan areas as well as other metropolitan areas and cities having a population of 100,000 or more according to the 1930 Census of Population.

**TABLE 8.—Comparison of Employment and Pay Rolls in Identical Establishments in
June and July 1940, by Principal Metropolitan Areas**

Metropolitan area	Number of estab- lishments July 1940	Number on pay roll July 1940	Percentage change from June 1940	Amount of pay roll (1 week) July 1940	Percentage change from June 1940
New York ¹	14,325	759,551	-1.7	\$21,526,817	-2.0
Chicago ²	4,383	481,223	+1.0	13,155,706	+7
Philadelphia ³	2,439	244,496	+4	6,867,023	+3
Detroit	1,652	277,997	-13.2	9,190,810	-16.9
Los Angeles ⁴	3,025	184,139	-1.0	5,449,644	-.9
Cleveland	1,624	132,437	-2.2	3,842,300	-4.8
St. Louis	1,391	127,760	+4	3,212,008	-.1
Baltimore	1,147	118,854	+8	3,080,381	-.1
Boston ⁵	2,936	184,522	+1.9	4,813,218	+2.1
Pittsburgh	1,205	200,612	+3	5,867,404	-.9
San Francisco ⁶	1,818	102,490	+(?)	3,149,997	-.9
Buffalo	779	82,299	-(?)	2,354,970	-.2
Milwaukee	1,001	102,901	-1.0	2,998,191	-1.8

¹ Does not include Elizabeth, Jersey City, Newark, or Paterson, N. J., or Yonkers, N. Y.

² Does not include Gary, Ind.

³ Does not include Camden, N. J.

⁴ Does not include Long Beach, Calif.

⁵ Does not include Cambridge, Lynn, or Somerville, Mass.

⁶ Does not include Oakland, Calif.

⁷ Less than 1/10 of 1 percent.

Public Employment

Employment created by the Federal Government includes employment financed from both regular and emergency appropriations.

EXECUTIVE SERVICE OF THE FEDERAL GOVERNMENT

Statistics of employment and pay rolls for the executive service of the Federal Government in July and June 1940 are given in table 9.

TABLE 9.—Employment and Pay Rolls for the Executive Service of the United States Government, July and June 1940¹

[Subject to revision]

Class	Employment			Pay rolls		
	July	June	Per-centage change	July	June	Per-centage change
Entire service:						
Total.....	1,023,341	1,011,066	+1.2	\$154,741,114	\$149,076,667	+3.8
Regular appropriation.....	873,724	856,061	+2.1	135,157,160	129,699,324	+4.2
Emergency appropriation.....	52,022	61,840	-15.9	6,879,289	7,777,168	-11.5
Force-account.....	97,595	93,175	+4.7	12,704,665	11,600,175	+9.5
Inside the District of Columbia:						
Total.....	138,487	133,823	+3.5	24,225,906	23,245,677	+4.2
Regular appropriation.....	123,259	118,178	+4.3	21,793,686	20,841,765	+4.6
Emergency appropriation.....	8,020	8,714	-8.0	1,227,889	1,349,035	-9.0
Force-account.....	7,208	6,931	+4.0	1,204,331	1,054,877	+14.2
Outside the District of Columbia:						
Total.....	884,854	877,243	+0.9	130,515,208	125,830,990	+3.7
Regular appropriation.....	750,465	737,873	+1.7	113,363,474	108,857,559	+4.1
Emergency appropriation.....	44,002	53,126	-17.2	5,651,400	6,428,133	-12.1
Force-account.....	90,387	86,244	+4.8	11,500,334	10,545,298	+9.1

¹ Data include number of employees receiving pay during the last pay period of the month.

CONSTRUCTION PROJECTS FINANCED BY THE PUBLIC WORKS ADMINISTRATION

Details concerning employment, pay rolls, and man-hours worked during July on construction projects financed by Public Works Administration funds are given in table 10, by type of project.

TABLE 10.—*Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, July 1940*¹

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum	Weekly average				
All programs.....	76,042	63,588	\$7,714,121	7,923,640	\$0.974	\$13,499,759
Federal projects financed from National Industrial Recovery Act funds						
All projects.....	691	544	\$49,507	65,418	\$0.757	\$87,601
Building construction.....	413	313	30,202	36,053	.838	68,518
Public roads.....	(b)	64	3,700	5,060	.731	7,400
Reclamation.....	59	57	6,960	9,884	.704	1,937
River, harbor, and flood control.....	98	62	3,620	6,358	.569	8,586
Water and sewerage.....	31	22	1,340	3,331	.402	830
Miscellaneous.....	26	26	3,685	4,732	.779	330
Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	7,422	6,492	\$726,404	803,028	\$0.905	\$723,669
Airport construction (exclusive of buildings).....	481	472	51,418	80,443	.639	46,551
Building construction.....	3,918	3,267	382,337	362,974	1.053	385,189
Electrification.....	544	500	43,847	54,297	.808	14,448
Reclamation.....	1,375	1,312	152,316	192,202	.792	204,803
River, harbor, and flood control.....	497	423	42,397	50,621	.838	43,927
Streets and roads.....	81	78	7,777	10,361	.751	19,072
Water and sewerage.....	189	169	12,435	11,298	1.101	4,893
Miscellaneous.....	143	135	12,397	15,133	.819	3,833
Professional, technical, and clerical.....	194	136	21,480	25,699	.836	953
Non-Federal projects financed from National Industrial Recovery Act funds						
All projects.....	1,976	1,654	\$238,169	215,136	\$1.107	\$319,119
Building construction.....	1,331	1,083	186,666	144,441	1.292	198,197
Streets and roads.....	384	341	33,176	46,018	.721	62,484
Miscellaneous.....	261	230	18,327	24,677	.743	58,438
Non-Federal projects financed from Emergency Relief Appropriation Act 1935, 1936, and 1937 funds						
All projects.....	6,606	5,944	\$681,705	869,085	\$0.784	\$864,564
Building construction.....	684	562	75,039	59,539	1.260	121,226
Electrification.....	636	550	54,451	64,411	.845	108,578
Heavy engineering.....	4,330	3,966	462,249	629,365	.734	524,230
Reclamation.....	266	247	32,826	37,811	.868	18,002
Water and sewerage.....	600	619	87,140	77,959	.733	76,600
Miscellaneous.....	0	0	0	0	0	15,928

See footnotes at end of table.

TABLE 10.—*Employment and Pay Rolls on Projects Financed from Public Works Administration Funds, July 1940*¹—Continued

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ²	Weekly average				
Non-Federal projects financed from Public Works Administration Appropriation Act 1938 funds						
All projects.....	59,347	48,954	\$6,018,336	5,970,973	\$1.008	\$11,504,806
Building construction.....	16,271	13,241	1,613,449	1,377,446	1.171	2,568,939
Electrification.....	1,077	772	105,430	99,324	1.061	295,808
Heavy engineering.....	13,997	11,609	1,595,333	1,456,639	1.095	2,023,829
Reclamation.....	376	333	40,525	47,083	.861	26,800
River, harbor, and flood control.....	19	13	1,205	1,114	1.082	15,046
Streets and roads.....	15,408	12,806	1,337,669	1,661,046	.805	2,400,982
Water and sewerage.....	12,192	10,175	1,324,124	1,327,807	.997	2,463,509
Miscellaneous.....	7	5	601	514	1.169	1,709,893

¹ Data are for the month ending on the 15th.

² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

³ Includes weekly average for public roads.

⁴ Under the jurisdiction of the Public Roads Administration.

⁵ Not available; weekly average included in total for all projects.

UNITED STATES HOUSING AUTHORITY

Table 11 shows data concerning employment, pay rolls, and man-hours worked in July 1940 on low-rent projects of the United States Housing Authority.

TABLE 11.—*Employment and Pay Rolls on Low-Rent Housing Projects Operated by the United States Housing Authority, July 1940*

[Subject to revision]

Geographic division	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ¹	Weekly average				
All divisions.....	50,526	43,325	\$5,335,120	5,530,107	\$0.965	\$7,031,843
New England.....	4,968	4,469	681,375	597,093	1.141	857,317
Middle Atlantic.....	10,767	9,135	1,361,825	1,061,772	1.283	1,891,542
East North Central.....	5,489	4,756	745,085	631,088	1.181	850,453
West North Central.....	522	461	52,165	58,589	.990	93,051
South Atlantic.....	12,503	10,391	1,017,757	1,359,279	.749	1,567,162
East South Central.....	8,277	7,096	735,975	920,209	.800	855,054
West South Central.....	5,263	4,570	449,460	559,786	.808	500,681
Mountain.....	381	338	48,124	41,400	1.162	140,349
Pacific.....	1,553	1,426	212,417	204,864	1.037	239,800
Outside continental United States..	803	683	30,937	96,027	.322	36,434

¹ Maximum number employed during any 1 week of the month.

WORK PROJECTS ADMINISTRATION PROGRAM

A record of employment, pay rolls, and man-hours worked on projects financed by the Work Projects Administration in July is shown in table 12, by type of project.

TABLE 12.—*Employment and Pay Rolls on Projects Financed by the Work Projects Administration, July 1940*

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ¹	Weekly average				
Projects operated by Federal Agencies						
All projects.....	107, 803	102, 313	\$4, 376, 523	10, 845, 286	\$0. 404	\$714, 599
Airport construction (exclusive of buildings).....	7, 369	6, 839	90, 622	415, 789	. 218	3, 210
Building construction.....	40, 306	37, 175	1, 536, 104	3, 656, 816	. 420	225, 745
Electrification.....	106	101	2, 853	6, 563	. 435	155
Forestry.....	15, 251	15, 249	693, 899	1, 763, 201	. 394	101, 402
Grade-crossing elimination ²	241	192	15, 739	26, 270	. 599	24, 931
Hydroelectric power plants ³	1, 178	1, 173	48, 905	201, 730	. 242	20, 000
Plant, crop, and livestock conservation.....	12, 651	12, 524	624, 552	1, 405, 786	. 444	62, 032
Professional, technical, and clerical.....	4, 807	4, 662	335, 329	576, 699	. 581	70, 454
Public roads ⁴	245	181	11, 705	20, 944	. 559	3, 988
Reclamation.....	16, 762	16, 100	705, 977	1, 840, 288	. 384	122, 755
River, harbor, and flood control.....	1, 205	1, 006	61, 870	116, 688	. 530	14, 448
Streets and roads.....	2, 094	1, 861	77, 405	228, 596	. 339	15, 795
Water and sewerage.....	848	774	20, 278	98, 438	. 217	7, 874
Miscellaneous.....	4, 740	4, 476	151, 285	492, 478	. 307	41, 810
Projects operated by Work Projects Administration ⁴						
All projects.....	⁵ 1, 651, 407	\$95, 030, 429	207, 734, 571	\$0. 457	(⁶)

¹ Maximum number employed during any 1 week of the month on Federal projects by each contractor and Government agency doing force-account work.

² Projects under the jurisdiction of the Public Roads Administration.

³ Projects under construction in Puerto Rico.

⁴ Data are for the calendar month. Will be published by type of project in August pamphlet.

⁵ Represents number of names on pay roll as of July 31, 1940.

⁶ Data on a monthly basis are not available.

A record of employment, pay rolls, and man-hours worked on projects operated by the Work Projects Administration in June is shown in table 13, by type of project.

TABLE 13.—*Employment and Pay Rolls on Projects Operated by the Work Projects Administration, by Type of Project, June 1940*

[Subject to revision]

Type of project	Employment ¹	Pay rolls	Man-hours worked	Average earnings per hour
All projects.....	1, 583, 242	\$96, 545, 418	213, 994, 961	\$0. 451
Conservation.....	39, 578	2, 602, 145	5, 002, 971	. 441
Highway, road, and street.....	673, 036	37, 562, 001	90, 904, 827	. 413
Professional, technical, and clerical.....	280, 325	19, 751, 011	38, 365, 523	. 515
Public buildings.....	143, 952	8, 952, 623	18, 093, 057	. 495
Publicly owned or operated utilities.....	157, 921	9, 644, 053	20, 792, 209	. 464
Recreational facilities.....	90, 224	5, 589, 499	11, 579, 676	. 483
Sanitation and health.....	24, 067	1, 380, 094	3, 329, 044	. 415
Sewing, canning, and gardening, etc.....	110, 367	6, 564, 933	16, 560, 209	. 396
Transportation.....	22, 174	1, 339, 719	2, 734, 036	. 490
Not elsewhere classified.....	41, 598	3, 159, 340	5, 703, 409	. 554

¹ As of June 26, 1940.

NATIONAL YOUTH ADMINISTRATION

Employment and pay rolls on the National Youth Administration projects for July and June 1940 are shown in table 14.

TABLE 14.—*Employment and Pay Rolls on National Youth Administration Projects, July and June 1940*

[Subject to revision]

Type of project	Employment		Pay rolls	
	July	June	July	June
Total.....	188, 029	588, 629	\$3, 332, 612	\$7, 879, 537
Student work program ¹	0	314, 539	0	2, 321, 283
Out-of-school work program.....	188, 029	274, 090	3, 332, 612	5, 558, 254

¹ Not in operation during July.

CIVILIAN CONSERVATION CORPS

Employment and pay rolls in the Civilian Conservation Corps in July and June 1940 are presented in table 15.

TABLE 15.—Employment and Pay Rolls in the Civilian Conservation Corps, July and June 1940 ¹

[Subject to revision]

Group	Number of employees		Amount of pay rolls	
	July	June	July	June
All groups.....	316, 548	² 282, 896	\$14, 146, 541	² \$13, 421, 374
Enrolled personnel ³	280, 072	244, 596	8, 713, 816	7, 614, 750
Nurses ⁴	222	231	29, 629	31, 163
Educational advisers ⁴	1, 560	1, 546	259, 592	260, 048
Supervisory and technical ⁴	34, 694	² 36, 523	5, 143, 504	² 5, 515, 413

¹ Employment figure is monthly average for enrolled personnel, and number employed on last day of month for other groups.

² Revised.

³ July data include 3,531 enrollees and pay roll of \$69,171 outside continental United States; in June the corresponding figures were 3,678 enrollees and pay roll of \$77,774.

⁴ Included in executive service, table 9.

CONSTRUCTION PROJECTS FINANCED BY RECONSTRUCTION FINANCE CORPORATION

Statistics of employment, pay rolls, and man-hours worked on construction projects financed by the Reconstruction Finance Corporation in July are presented in table 16, by type of project.

TABLE 16.—Employment and Pay Rolls on Projects Financed by the Reconstruction Finance Corporation, by Type of Project, July 1940 ¹

[Subject to revision]

Type of project	Employment ²	Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
All projects.....	2, 213	\$264, 726	241, 246	\$1. 097	\$350, 596
Building construction ³	2, 014	235, 762	211, 345	1. 116	247, 204
Streets and roads.....	50	3, 920	4, 171	. 940	10, 301
Water and sewerage.....	149	25, 044	25, 730	. 973	93, 091

¹ Data are for the month ending on the 15th.

² Maximum number employed during any 1 week of the month by each contractor.

³ Includes 1,284 employees; pay-roll disbursements of \$168,404; 134,022 man-hours worked; and material orders placed of \$138,166 on projects financed by RFC Mortgage Co.

CONSTRUCTION PROJECTS FINANCED FROM REGULAR FEDERAL APPROPRIATIONS

Data concerning employment, pay rolls, and man-hours worked on construction projects financed from regular Federal appropriations during July are given in table 17, by type of project.

TABLE 17.—*Employment and Pay Rolls on Construction Projects Financed from Regular Federal Appropriations, by Type of Project, July 1940*¹

[Subject to revision]

Type of project	Employment		Monthly pay rolls	Man-hours worked during month	Average earnings per hour	Value of material orders placed during month
	Maximum ²	Weekly average				
All projects.....	3 317, 691	300, 560	\$34, 646, 957	44, 798, 981	\$0. 773	\$46, 015, 449
Building construction.....	27, 302	22, 581	2, 561, 797	2, 655, 929	. 965	4, 459, 094
Electrification:						
Rural Electrification Administration projects ⁴	6, 975	5, 903	425, 458	752, 425	. 565	1, 844, 575
Other than R. E. A. projects.....	489	387	26, 870	37, 959	. 708	42, 882
Forestry.....	15	15	846	1, 840	. 460	5
Heavy engineering.....	140	127	25, 354	19, 250	1. 317	
Public roads ⁵	(⁶)	101, 481	9, 869, 039	15, 144, 153	. 652	13, 709, 338
Reclamation.....	24, 838	23, 843	3, 353, 242	3, 966, 990	. 914	7, 375, 638
River, harbor, and flood control:						
Dredgings, dikes, revetments, etc.....	31, 340	27, 768	3, 080, 038	4, 460, 082	. 691	3, 289, 698
Locks and dams.....	7, 557	6, 728	907, 924	1, 075, 579	. 844	1, 060, 353
Ship construction:						
Naval vessels.....	77, 854	75, 435	11, 082, 833	12, 586, 767	. 881	10, 190, 853
Other than naval vessels.....	25, 794	23, 172	2, 528, 836	3, 020, 445	. 837	2, 379, 793
Streets and roads.....	2, 824	2, 523	216, 354	323, 641	. 668	245, 008
Water and sewerage.....	256	197	20, 933	26, 477	. 791	36, 574
Miscellaneous.....	10, 826	10, 400	547, 433	1, 027, 444	. 533	1, 381, 638

¹ Data are for the month ending on the 15th.

² Maximum number employed during any 1 week of the month by each contractor and Government agency doing force-account work.

³ Includes weekly average for public-road projects.

⁴ Financed by Rural Electrification Administration loans.

⁵ Under the jurisdiction of the Public Roads Administration.

⁶ Not available; weekly average included in the total for all projects.

STATE-ROADS PROJECTS

A record of employment and pay-roll disbursements on the construction and maintenance of roads financed wholly from State or local funds in July 1940, compared with June 1940, and July 1939, is presented in table 18.

TABLE 18.—*Employment and Pay Rolls on Construction and Maintenance of State Roads, July 1940, June 1940, and July 1939*¹

[Subject to revision]

Item	Employment ²			Pay rolls		
	July 1940	June 1940	July 1939	July 1940	June 1940	July 1939
Total.....	197, 950	189, 730	146, 202	\$14, 696, 498	\$13, 450, 050	\$10, 521, 530
New roads.....	61, 705	55, 679	20, 045	3, 984, 957	3, 555, 180	1, 310, 890
Maintenance.....	136, 245	134, 051	126, 157	10, 711, 541	9, 894, 870	9, 210, 640

¹ Projects financed wholly from State or local funds. July and June 1940 data are for the calendar month; July 1939 for the month ending on the 15th.

² Average number working during month.

